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# The Effects of Decreased Nutrient Loading on the Limnology of Diamond Lake, Oregon. Appendix

(U.S.) Corvallis Environmental Research Lab, OR

Aug 79

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16. ABSTRACT
Responding to accelerated recreational pressure at Diamond Lake, Oregon, in 1969 the U.S. Forest Service began installation of a wastewater diversion system which would eventually carry 85 to 90 % of the sewage out of the watershed. From 1971 through 1977 the U.S. Environmental Protection Agency conducted a program of research on the lake to determine its trophic status and identify changes that might be the result of the diversion.
The lake is quite productive as the result of natural loading from tributaries, groundwater and bottom sediments. Cultural influence, initially speculated to be significant was discovered to have a relatively minor impact on the lake. Total phosphorus and chlorphyll a levels reached a low in 1973, but by 1977 had increased to levels comparable to 1971. Species composition of the benthic macroinvertebrate population was the same in 1976/1977 as it was at the beginning of the study. Recommendations include an adaptation of the Dillon and Rigler system for determining the development capacity of lakes.

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|---|---|---|
| Limnology<br>Lakes<br>Water pollution<br>Hydrology<br>Waste water diversion<br>phosphorus<br>chlorophy a | nutrient loading<br>eutrophication | 081H<br>08/H |

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APPENDIX

# THE EFFECTS OF DECREASED NUTRIENT LOADING ON THE LIMNOLOGY OF DIAMOND LAKE, OREGON

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## FOREWORD

Effective regulatory and enforcement actions by the Environmental Protection Agency would be virtually impossible without sound scientific data on pollutants and their impact on environmental stability and human health. Responsibility for building this data base has been assigned to EPA's Office of Research and Development and its 15 major field installations, one of which is the Corvallis Environmental Research Laboratory (CERL).

The primary mission of the Corvallis Laboratory is research on the effects of environmental pollutants on terrestrial, freshwater, and marine ecosystems; the behavior, effects and control of pollutants in lake and stream systems; and the development of predictive models on the movement of pollutants in the biosphere.

This report documents the effects of diversion of domestic wastewater from a freshwater lake.

James C. McCarty
Acting Director, CERL

## ABSTRACT

Responding to accelerated recreational pressure at Diamond Lake, Oregon, in 1969 the U.S. Forest Service began installation of a wastewater diversion system which would eventually carry 85 to 90% of the sewage out of the watershed. From 1971 through 1977 the U.S. Environmental Protection Agency conducted a program of research on the lake to determine its trophic status and identify changes that might be the result of the diversion.

The lake is quite productive as the result of natural loading from tributaries, groundwater and bottom sediments. Cultural influence, initially speculated to be significant, was discovered to have a relatively minor impact on the lake. Total phosphorus and chlorophyll a levels reached a low in 1973, but by 1977 had increased to levels comparable to 1971. Species composition of the benthic macroinvertebrate population was the same in 1976/77 as it was at the beginning of the study.

Recommendations include an adaptation of the Dillon and Rigler system for determining the development capacity of lakes.

The report covers a period from June 4, 1971 to October 27, 1977.

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Jerry Bauer of the Oregon Department of Fish and Wildlife provided data generated from their studies at Diamond Lake.

# INTRODUCTION

Many mountain lakes in Oregon and Washington are subject to heavy recreational use during the non-winter months. Intensive use frequently results in greatly increased nutrient flux to lakes with a consequent acceleration of eutrophication rates and degradation of water quality. This study documents the impact of a waste-water interception program at Diamond Lake, Oregon, with emphasis on defining the nutrient budget and describing the benthic macroinvertebrate population. The following appendix contains the data from this study over its 7-year duration, from June 4, 1971 to October 27, 1977.

The comprehensive narrative of the study is reported in the Environmental Protection Agency's Research Series Publication EPA-600/8-79-017a.

## CONCLUSIONS

1. Diamond Lake is mesotrophic to eutrophic as a result of natural nutrient loading from the tributaries, groundwater and sediments.

2. The nutrient contribution from cultural activities in the watershed is, at present, relatively insignificant compared to natural sources.

3. During the period of this investigation no change was found in the trophic status of the lake that could be attributed to the wastewater diversion system.

4. The trophic status of Diamond Lake is appropriate in satisfying present recreational demands.

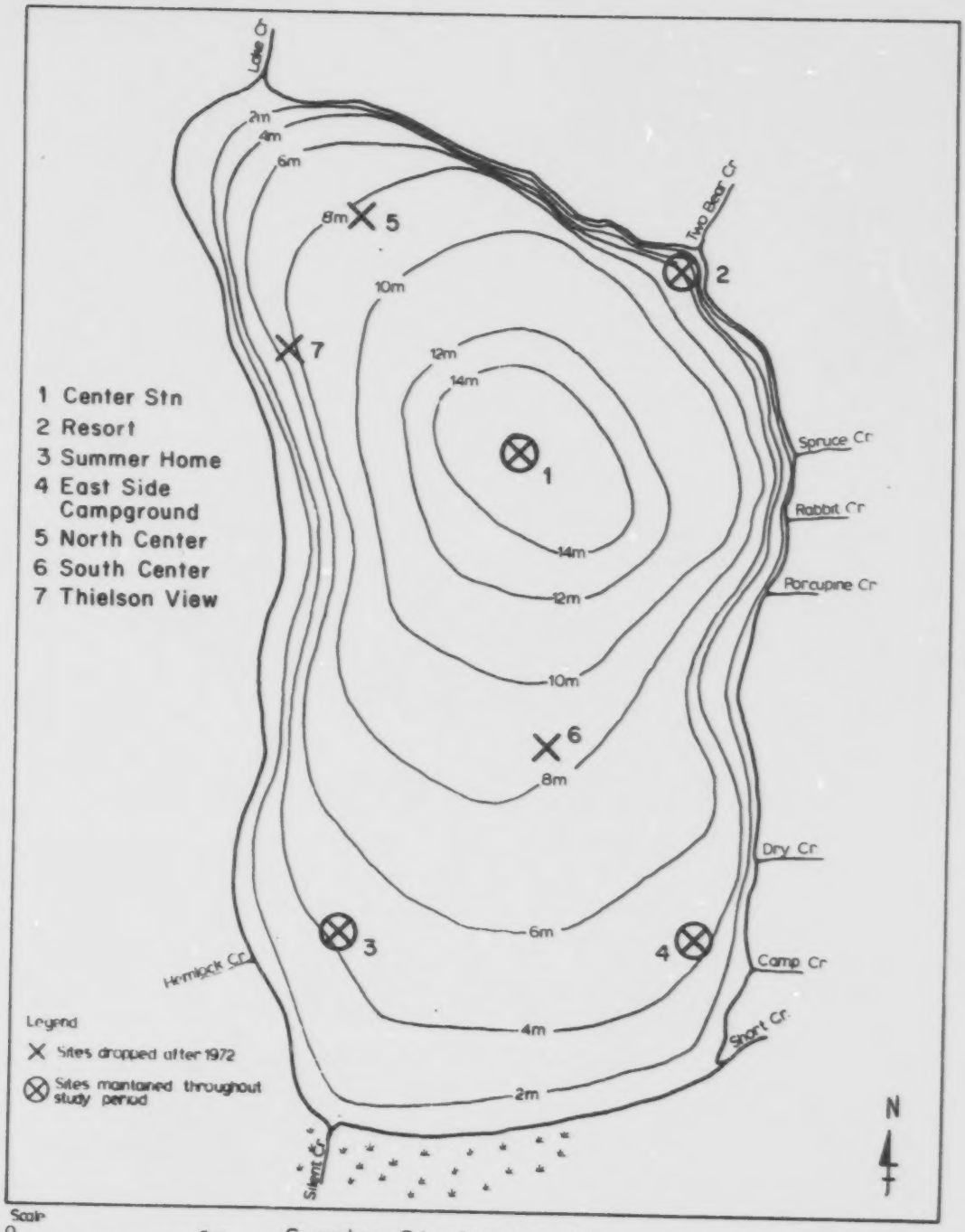
## RECOMMENDATIONS

The present trophic status of Diamond Lake should be perpetuated. Cultural activity and development should be managed to minimze the artificial nutrient supply to the lake.

Surveillance of Diamond Lake's trophic status should continue. It is recommended that during the summer, from June through September, monthly samples be collected from the center station at 1 meter for nutrient and chlorophyll analysis, and that Secchi disc measurements be made. More frequent sampling would be preferable. Sampling and analytical techniques should be comparable to those cited here.

A nutrient budget should be developd before implementation of a plan to alter the trophic status of any lake and should include an accurate assessment of the groundwater contribution.

When applying predictive models precise field measurements should be used whenever available instead of estimates and generalizations.




Scale 0 1km

Sampling Site Location Map

## CHLOROPHYLL A, PRIMARY PRODUCTION AND LIGHT

Chlorophyll analyses were done according to Strickland and Parsons (1965) as modified by EPA (1973) while Primary Productivity was assessed by the $^{14}C$ method described by Goldman et al. (1971). Light was measured with a Lambda Instruments LI 185 Quantum/Radiometer/Photometer with a LI 192S underwater quantum sensor. Measuring sensitivity was between approximately 400 and 700 nm.

DIAMOND LAKE
CENTER STATION, SURFACE (0.1 m)

| | Chl a mg/m³ | Prim. Prod. mg C fixed/m³/hr | Avg. Surface Incident Light Over Incub. period μE/m²/sec | Approx Avg. Light over Incub. Period @ z μE/m²/sec | % of Surf. Incident Light @ z |
|---|---|---|---|---|---|
| 09/27/71 | 32.4 | --- | --- | --- | --- |
| 05/24/72 | 0.5 | 0.7 | --- | --- | --- |
| 06/27/72 | 2.7 | 2.6 | --- | --- | --- |
| 07/11/72 | --- | 8.8 | --- | --- | --- |
| 07/24/72 | 5.3 | 13.4 | --- | --- | --- |
| 08/08/72 | --- | 12.8 | --- | --- | --- |
| 08/22/72 | 16.3 | 11.1 | --- | --- | --- |
| 09/25/72 | 7.3 | --- | --- | --- | --- |
| 05/23/73 | 0.9 | --- | --- | --- | --- |
| 06/18/73 | --- | 2.1 | --- | --- | --- |
| 07/10/73 | 4.2 | 10.2 | --- | --- | --- |
| 08/14/73 | --- | 32.3 | --- | --- | --- |
| 09/11/73 | 6.4 | 24.7 | --- | --- | --- |
| 10/18/73 | 6.5 | --- | --- | --- | --- |
| 06/05/74 | 0.6 | --- | --- | --- | --- |
| 08/07/74 | 5.7 | 1.7 | --- | --- | --- |
| 09/11/74 | 9.6 | 2.9 | 1612 | 1483 | 92 |
| 10/09/74 | 8.2 | --- | --- | --- | --- |
| 12/04/74 | 3.7 | --- | --- | --- | 57 |
| 03/03/75 | 3.6 | --- | --- | --- | --- |
| 06/05/75 | 4.1 | 12.3 | 2047 | 2006 | 98 |
| 07/09/75 | 4.5 | 0.5 | --- | --- | --- |
| 08/13/75 | 14.7 | 4.3 | 1874 | 1780 | 95 |
| 09/18/75 | 10.7 | 1.8 | 1568 | 1411 | 90 |
| 05/20/76 | 3.0 | 0.7 | 1858 | 1598 | 86 |
| 06/30/76 | 3.9 | 2.6 | 642 | 520 | 81 |
| 07/21/76 | 5.9 | 3.5 | 1900 | 1881 | 99 |
| 08/18/76 | 2.2 | 0.0 | 586 | 557 | 95 |
| 09/15/76 | 11.3 | --- | 335 | 298 | 89 |
| 10/14/76 | 16.1 | --- | 1296 | 1076 | 83 |
| 04/28/77 | 35.9 | 2.5 | 672 | 531 | 79 |
| 06/02/77 | 2.7 | 1.1 | 1906 | 1811 | 95 |
| 06/30/77 | 2.7 | 3.3 | 1396 | 1368 | 98 |
| 07/20/77 | 4.8 | 3.5 | 2006 | 1906 | 95 |
| 08/18/77 | 43.4 | 22.8 | 1716 | --- | --- |
| 09/27/77 | 15.4 | --- | --- | --- | --- |
| 10/27/77 | 14.1 | 13.8 | 536 | --- | --- |

DIAMOND LAKE
CENTER STATION, 1 Meter

| | Chl a mg/m$^3$ | Prim. Prod. mg C fixed/m$^3$/hr | Approx. Avg. Light over Incub. Period @ z µE/m$^2$/sec | % of Surf. Incident Light @ z |
|---|---|---|---|---|
| 06/04/71 | 18.3 | --- | --- | --- |
| 07/07/71 | 2.3 | 0.8 | --- | --- |
| 07/21/71 | 0.0 | 3.0 | --- | --- |
| 08/03/71 | 2.6 | 8.5 | --- | --- |
| 08/17/71 | 3.4 | 14.9 | --- | --- |
| 08/24/71 | 2.1 | --- | --- | --- |
| 09/01/71 | 17.6 | --- | --- | --- |
| 09/08/71 | 15.1 | 38.4 | --- | --- |
| 09/27/71 | 32.4 | --- | --- | --- |
| 05/24/72 | --- | 5.5 | --- | --- |
| 06/27/72 | --- | 6.4 | --- | --- |
| 07/11/72 | --- | 15.2 | --- | --- |
| 07/24/72 | --- | 25.5 | --- | --- |
| 08/08/72 | --- | 26.3 | --- | --- |
| 08/22/72 | --- | 37.7 | --- | --- |
| 06/18/73 | --- | 6.9 | --- | --- |
| 07/10/73 | --- | 8.9 | --- | --- |
| 08/14/73 | --- | 30.2 | --- | --- |
| 09/11/73 | --- | 41.4 | --- | --- |
| 08/07/74 | 5.3 | 23.0 | --- | --- |
| 09/11/74 | --- | 8.8 | 967 | 60 |
| 12/04/74 | --- | --- | --- | 42 |
| 03/03/75 | --- | --- | --- | 10 |
| 06/05/75 | 4.1 | 15.8 | 1228 | 60 |
| 07/09/75 | --- | 1.4 | --- | --- |
| 08/13/75 | 9.4 | 10.5 | 1293 | 69 |
| 09/18/75 | 8.6 | 4.4 | 847 | 54 |
| 05/20/76 | 7.1 | 4.4 | 1263 | 68 |
| 06/30/76 | 3.0 | 4.6 | 295 | 46 |
| 07/21/76 | 3.7 | 5.4 | 1368 | 72 |
| 08/18/76 | 4.1 | 0.6 | 352 | 60 |
| 09/15/76 | --- | --- | 181 | 54 |
| 10/14/76 | 12.1 | --- | 609 | 47 |
| 04/28/77 | 33.0 | 4.2 | 242 | 36 |
| 06/02/77 | 2.3 | 2.7 | 1296 | 68 |
| 06/30/77 | 1.6 | 4.5 | 963 | 69 |
| 07/20/77 | 5.3 | 17.0 | 1324 | 66 |
| 08/18/77 | 18.1 | 40.7 | --- | --- |
| 09/27/77 | 16.7 | --- | --- | --- |
| 10/27/77 | 12.7 | 16.2 | --- | --- |

DIAMOND LAKE
CENTER STATION, 4 Meters

| | Chl a mg/m³ | Prim. Prod. mg C fixed/m³/hr | Approx. Avg. Light over Incub. Period @ z µE/m²/sec | % of Surf. Incident Light @ z |
|---|---|---|---|---|
| 07/07/71 | 0.0 | 1.1 | --- | --- |
| 07/21/71 | 1.3 | 2.6 | --- | --- |
| 08/03/71 | 2.2 | 10.3 | --- | --- |
| 08/17/71 | 2.3 | 19.9 | --- | --- |
| 08/24/71 | 2.2 | --- | --- | --- |
| 09/01/71 | 13.1 | --- | --- | --- |
| 09/08/71 | 26.2 | --- | --- | --- |
| 05/24/72 | --- | 10.6 | --- | --- |
| 06/27/72 | --- | 10.7 | --- | --- |
| 07/11/72 | --- | 12.7 | --- | --- |
| 07/24/72 | --- | 18.9 | --- | --- |
| 08/08/72 | --- | 13.5 | --- | --- |
| 08/22/72 | --- | 32.3 | --- | --- |
| 06/18/73 | --- | 15.0 | --- | --- |
| 07/10/73 | --- | 16.1 | --- | --- |
| 08/14/73 | --- | 34.2 | --- | --- |
| 09/11/73 | --- | 43.5 | --- | --- |
| 08/07/74 | 4.7 | 31.1 | --- | --- |
| 09/11/74 | --- | 24.7 | 290 | 18 |
| 12/04/74 | --- | --- | --- | 14 |
| 03/03/75 | --- | --- | --- | F1 |
| 06/05/75 | 5.8 | 21.0 | 246 | 12 |
| 07/09/75 | 3.6 | 4.0 | --- | --- |
| 08/13/75 | 10.0 | 11.5 | 450 | 24 |
| 09/18/75 | 9.1 | 4.7 | 282 | 18 |
| 05/20/76 | 8.4 | 8.7 | 316 | 17 |
| 06/30/76 | 3.2 | 4.9 | 135 | 21 |
| 07/21/76 | 2.7 | 6.2 | 551 | 29 |
| 08/18/76 | 4.5 | 1.0 | 123 | 21 |
| 09/15/76 | --- | --- | 37 | 11 |
| 10/14/76 | 15 8 | --- | 91 | 7 |
| 04/28/77 | 34.2 | 3.7 | 47 | 7 |
| 06/02/77 | 3.6 | 3.5 | 477 | 25 |
| 06/30/77 | 3.2 | 5.9 | 391 | 28 |
| 07/20/77 | 4.2 | 11.5 | 421 | 21 |
| 08/18/77 | 12.7 | 24.9 | --- | --- |
| 09/27/77 | 15.4 | --- | --- | --- |
| 10/27/77 | 13.4 | 14.5 | --- | --- |

DIAMOND LAKE
CENTER STATION, 5 Meters

| | Chl a mg/m$^3$ | Prim. Prod. mg C fixed/m$^3$/hr | Approx. Avg. Light over Incub. Period @ z µE/m$^2$/sec | % of Surf. Incident Light @ z |
|---|---|---|---|---|
| 09/27/71 | 29.3 | --- | --- | --- |
| 05/24/72 | 0.0 | --- | --- | --- |
| 06/27/72 | 3.9 | --- | --- | --- |
| 07/24/72 | 4.4 | --- | --- | --- |
| 08/22/72 | 17.0 | --- | --- | --- |
| 09/25/72 | 10.2 | --- | --- | --- |
| 05/23/73 | 0.8 | --- | --- | --- |
| 07/10/73 | 2.9 | --- | --- | --- |
| 08/14/73 | 5.6 | --- | --- | --- |
| 08/21/73 | 2.3 | --- | --- | --- |
| 09/11/73 | 9.3 | --- | --- | --- |
| 10/18/73 | 5.9 | --- | --- | --- |
| 06/05/74 | 0.0 | --- | --- | --- |
| 07/10/74 | 5.3 | --- | --- | --- |
| 08/07/74 | 4.7 | --- | --- | --- |
| 09/11/74 | 10.7 | --- | 193 | 12 |
| 10/09/74 | 9.6 | --- | --- | --- |
| 12/04/74 | 3.2 | --- | --- | 9 |
| 03/03/75 | 1.8 | --- | --- | F1 |
| 06/05/75 | --- | --- | 164 | 8 |
| 07/09/75 | 5.4 | --- | --- | --- |
| 08/13/75 | --- | --- | 319 | 17 |
| 09/18/75 | --- | --- | 204 | 13 |
| 05/20/76 | 10.9 | --- | 242 | 13 |
| 06/30/76 | 2.6 | --- | 109 | 17 |
| 07/21/76 | 3.5 | --- | 418 | 22 |
| 08/18/76 | 4.3 | --- | 88 | 15 |
| 09/15/76 | 10.5 | --- | 23 | 7 |
| 10/14/76 | 16.1 | --- | 52 | 4 |
| 04/28/77 | 35.6 | --- | 27 | 4 |
| 06/02/77 | 2.7 | --- | 343 | 18 |
| 06/30/77 | 2.7 | --- | 293 | 21 |
| 07/20/77 | 4.7 | --- | 281 | 14 |

DIAMOND LAKE
CENTER STATION, 7 Meters

| | Chl a mg/m³ | Prim. Prod. mg C fixed/m³/hr | Approx. Avg. Light over Incub. Period @ z μE/m²/sec | % of Surf. Incident Light @ z |
|---|---|---|---|---|
| 07/07/71 | 1.4 | 1.8 | --- | --- |
| 07/21/71 | 2.6 | 7.6 | --- | --- |
| 08/03/71 | 2.5 | 10.2 | --- | --- |
| 08/17/71 | 4.1 | 10.0 | --- | --- |
| 08/24/71 | 1.8 | --- | --- | --- |
| 09/01/71 | 9.3 | --- | --- | --- |
| 09/08/71 | 17.3 | 0.8 | --- | --- |
| 05/24/72 | --- | 5.6 | --- | --- |
| 06/27/72 | --- | 14.5 | --- | --- |
| 07/11/72 | --- | 7.8 | --- | --- |
| 07/24/72 | --- | 7.5 | --- | --- |
| 08/08/72 | --- | 7.5 | --- | --- |
| 08/22/72 | --- | 15.5 | --- | --- |
| 06/18/73 | --- | 12.3 | --- | --- |
| 07/10/73 | --- | 18.4 | --- | --- |
| 08/14/73 | --- | 12.3 | --- | --- |
| 09/11/73 | --- | 24.3 | --- | --- |
| 08/07/74 | 4.5 | 13.4 | --- | --- |
| 09/11/74 | --- | 10.8 | 97 | 6 |
| 12/04/74 | --- | --- | --- | 7 |
| 03/03/75 | --- | --- | --- | <1 |
| 06/05/75 | 5.8 | 13.8 | 61 | 3 |
| 07/09/75 | 3.6 | 5.0 | --- | --- |
| 08/13/75 | 9.4 | 10.1 | 169 | 9 |
| 09/18/75 | 9.1 | 2.5 | 94 | 6 |
| 05/20/76 | 8.1 | 7.5 | 111 | 6 |
| 06/30/76 | 3.2 | 4.5 | 77 | 12 |
| 07/21/76 | 3.7 | 6.0 | 247 | 13 |
| 08/18/76 | 3.9 | 2.6 | 47 | 8 |
| 09/15/76 | --- | --- | 10 | 3 |
| 10/14/76 | 15.0 | --- | 13 | 1 |
| 04/28/77 | 58.8 | 1.5 | 13 | 2 |
| 06/02/77 | 1.8 | 3.1 | 210 | 11 |
| 06/30/77 | 2.7 | 4.2 | 168 | 12 |
| 07/20/77 | 4.4 | 8.2 | 140 | 7 |
| 08/18/77 | 21.4 | 6.7 | --- | --- |
| 09/27/77 | 16.7 | --- | --- | --- |
| 10/27/77 | 12.0 | 4.3 | --- | --- |

DIAMOND LAKE
CENTER STATION, 10 Meters

| | Chl a mg/m$^3$ | Prim. Prod. mg C fixed/m$^3$/hr | Approx. Avg. Light over Incub. Period @ z µE/m$^2$/sec | % of Surf. Incident Light @ z |
|---|---|---|---|---|
| 07/07/71 | 0.0 | 2.5 | --- | --- |
| 07/21/71 | 2.3 | 2.3 | --- | --- |
| 08/03/71 | 0.0 | 2.8 | --- | --- |
| 08/17/71 | 6.6 | 1.6 | --- | --- |
| 08/24/71 | 1.3 | --- | --- | --- |
| 09/08/71 | 0.7 | 0.0 | --- | --- |
| 09/27/71 | 31.1 | --- | --- | --- |
| 05/24/72 | 4.0 | 4.1 | --- | --- |
| 06/27/72 | 6.2 | 6.3 | --- | --- |
| 07/11/72 | --- | 10.8 | --- | --- |
| 07/24/72 | 2.7 | 6.9 | --- | --- |
| 08/08/72 | --- | 4.1 | --- | --- |
| 08/22/72 | 13.1 | 3.0 | --- | --- |
| 09/25/72 | 8.6 | --- | --- | --- |
| 05/23/73 | 2.2 | --- | --- | --- |
| 06/18/73 | --- | 5.6 | --- | --- |
| 07/10/73 | 4.0 | 14.1 | --- | --- |
| 08/14/73 | 5.7 | 10.6 | --- | --- |
| 09/11/73 | 12.2 | 8.1 | --- | --- |
| 10/18/73 | 6.5 | --- | --- | --- |
| 06/05/74 | 4.3 | --- | --- | --- |
| 07/10/74 | 10.7 | --- | --- | --- |
| 08/07/74 | 4.7 | 13.8 | --- | --- |
| 09/11/74 | 9.6 | 2.1 | 32 | 2 |
| 10/09/74 | 9.6 | --- | --- | --- |
| 12/04/74 | 3.8 | --- | --- | 3 |
| 03/03/75 | 1.8 | --- | --- | <1 |
| 06/05/75 | 2.3 | 4.7 | 14 | <1 |
| 07/09/75 | 5.4 | 5.1 | --- | --- |
| 08/13/75 | 5.3 | 13.0 | 75 | 4 |
| 09/18/75 | 9.1 | 0.9 | 31 | 2 |
| 05/20/76 | 6.8 | 6.6 | 37 | 2 |
| 06/30/76 | 7.9 | 3.9 | 26 | 4 |
| 07/21/76 | 6.4 | 12.7 | 95 | 5 |
| 08/18/76 | 3.2 | 2.8 | 23 | 4 |
| 09/15/76 | 10.3 | --- | 3 | 1 |
| 10/14/76 | 15.5 | --- | 4 | <1 |
| 04/28/77 | 36.9 | 0.1 | 3 | <1 |
| 06/02/77 | 1.4 | 2.5 | 95 | 5 |
| 06/30/77 | 10.2 | 2.7 | 56 | 4 |
| 07/20/77 | 8.3 | 6.4 | 60 | 3 |
| 08/18/77 | 16.7 | 3.2 | --- | --- |
| 09/27/77 | 15.4 | --- | --- | --- |
| 10/27/77 | 13.4 | 1.1 | --- | --- |

DIAMOND LAKE
CENTER STATION, 13 Meters

| | Chl a mg/m$^3$ | Prim. Prod. mg C fixed/m$^3$/hr | Approx. Avg. Light over Incub. Period @ z µE/m$^2$/sec | % of Surf. Incident Light @ z |
|---|---|---|---|---|
| 06/04/71 | 23.7 | --- | --- | --- |
| 07/07/71 | 0.0 | 0.1 | --- | --- |
| 07/21/71 | 0.9 | 0.8 | --- | --- |
| 08/03/71 | 0.0 | 0.4 | --- | --- |
| 08/17/71 | 4.0 | 0.5 | --- | --- |
| 09/08/71 | 0.9 | 0.2 | --- | --- |
| 09/27/71 | 29.1 | --- | --- | --- |
| 05/24/72 | 13.5 | 2.7 | --- | --- |
| 06/27/72 | 8.7 | 1.1 | --- | --- |
| 07/11/72 | --- | 1.1 | --- | --- |
| 07/24/72 | 4.9 | 3.9 | --- | --- |
| 08/22/72 | 21.6 | 4.0 | --- | --- |
| 09/25/72 | 6.7 | --- | --- | --- |
| 05/23/73 | 2.4 | --- | --- | --- |
| 06/18/73 | --- | 0.7 | --- | --- |
| 07/10/73 | 23.1 | 19.4 | --- | --- |
| 08/14/73 | 2.4 | 0.9 | --- | --- |
| 08/21/73 | 2.2 | --- | --- | --- |
| 09/11/73 | 10.8 | 2.2 | --- | --- |
| 10/18/73 | 6.7 | --- | --- | --- |
| 06/05/74 | 5.4 | --- | --- | --- |
| 07/10/74 | 3.2 | --- | --- | --- |
| 08/07/74 | 12.4 | 12.0 | --- | --- |
| 09/11/74 | 4.3 | 1.1 | 11 | <1 |
| 10/09/74 | 8.0 | --- | --- | --- |
| 12/04/74 | 3.2 | --- | --- | 2 |
| 03/03/75 | 2.7 | --- | --- | <1 |
| 06/05/75 | 5.3 | 0.3 | 4 | <1 |
| 07/09/75 | 6.3 | 0.0 | --- | --- |
| 08/13/75 | 14.7 | 5.4 | 19 | 1 |
| 09/18/75 | 11.8 | 0.0 | 13 | <1 |
| 05/20/76 | 21.0 | 2.3 | 15 | <1 |
| 06/30/76 | 5.0 | 1.2 | 6 | 1 |
| 07/21/76 | 4.3 | 3.3 | 38 | 2 |
| 08/18/76 | 3.0 | 2.3 | 12 | 2 |
| 09/15/76 | 11.4 | --- | 1 | <1 |
| 10/14/76 | 15.0 | --- | 1 | <1 |
| 04/28/77 | 38.1 | 0.4 | <1 | <1 |
| 06/02/77 | 0.9 | 0.2 | 38 | 2 |
| 06/30/77 | 3.7 | 0.0 | 14 | 1 |
| 07/20/77 | 4.4 | 1.4 | 20 | 1 |
| 08/18/77 | 8.0 | 1.0 | --- | --- |
| 09/27/77 | 16.7 | --- | --- | --- |
| 10/27/77 | 14.1 | 0.5 | --- | --- |

## PHYTOPLANKTON

Phytoplankton collected from 1971-1973 were preserved in 3-5% formalin and counted using a Sedgewick-Rafter counting cell in a modification of the clump count (American Public Health Association, 1971). The modification involved determining an average number of cells for all filamentous forms and multiplying this by the number of filaments to give a final estimated cell number.

Samples collected from 1974 through 1977 were preserved with Lugol's solution and counted and identified using an inverted microscope (Lund, 1958; EPA, 1973). Direct cell counts were made for these years except as indicated. The following codes were used: A--colony count; B--100 micrometer lengths; C--cysts; D--questionable identification; and E--daughter colonies.

CENTER STATION PHYTOPLANKTON 9/11/73
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|
| MELOSIRA | - | - | 1.0 B | - |
| STEPHANODISCUS | 55.0 | 29.0 | 121.0 | 124.0 |
| COCCONEIS | 1.0 | 2.0 | .4 | - |
| NAVICULA | 3.0 | - | - | 5.0 |
| NITZSCHIA | .4 | 1.0 | 3.0 | 2.0 |
| SYNEDRA | - | 1.0 | 12.0 | 6.0 |
| ANABAENA | 263.0 | 1115.0 | 1038.0 | 392.0 |
| COSMARIUM | .4 | .4 | - | - |
| GLOEOCYSTIS | .4 | 1.0 | 1.0 | 1.0 |
| OOCYSTIS | 71.0 | 114.0 | 92.0 | 85.0 |
| SCHROEDERIA | 112.0 | 90.0 | 75.0 | 38.0 |
| SPHAEROCYSTIS | 17.0 | 22.0 | - | 15.0 |
| STAURASTRUM | 2.0 | 4.0 | 5.0 | 5.0 |
| QUADRIGULA | - | 1.0 | 2.0 | 2.0 |
| CLOSTERIUM | - | - | 5.0 | - |
| UNKNOWN GREEN COCCOID | - | - | - | 2.0 |
| CHLAMYDOMONAS | 251.0 | 84.0 | 6.0 | 4.0 |
| EUDORINA | - | - | 1.0 A | .4 A |
| HETEROMASTIX | 16.0 | 13.0 | 1.0 | 3.0 |
| CERATIUM | .4 | - | - | - |
| CHROMULINA | 130.0 | 107.0 | 64.0 | 18.0 |
| CRYPTOMONAS | 10.0 | 91.0 | 93.0 | 42.0 |
| RHODOMONAS | 5.0 | 17.0 | .4 | - |
| OCHROMONAS | 3.0 | 2.0 | 8.0 | 16.0 |
| STIPITOCOCCUS | 48.0 | 38.0 | 178.0 | 157.0 |
| TOTAL | 988.6 | 1732.4 | 1706.8 | 917.4 |

CENTER STATION PHYTOPLANKTON 6/ 5/74
CELLS/ML

| NAME | SURF | 5 M | 10 M | 10 M | 13 M |
|---|---|---|---|---|---|
| CYCLOTELLA | 72.4 | 16.0 | 99.0 | 248.0 | 196.0 |
| MELOSIRA | - | .7 | - | - | - |
| STEPHANODISCUS | 2.1 | 2.2 | 3.0 | 15.0 | - |
| ACHNANTHES | .4 | - | - | - | 7.0 |
| ASTERIONELLA | 42.0 | 184.3 | 586.0 | 851.0 | 518.0 |
| COCCONEIS | .7 | - | - | - | - |
| FRAGILARIA | 46.6 | 64.1 | 84.0 | 116.0 | 196.0 |
| GOMPHONEMA | .4 | - | - | - | - |
| NAVICULA | .4 | 137.0 | - | - | 7.0 |
| NITZSCHIA | 3.5 | 3.0 | 3.0 | - | - |
| PINNULARIA | - | - | 3.0 | - | - |
| ANABAENA | 2.5 | - | 32.0 | - | - |
| SCHIZOTHRIX | 5.3 | - | - | - | - |
| ANKISTRODESMUS | - | 5.6 | 35.0 | 39.0 | 77.0 |
| CHLORELLA | - | - | - | - | 98.0 |
| GLOEOCYSTIS | 4.9 | 4.1 | 37.0 | 46.0 | 14.0 |
| GOLENKINIA | 160.0 | 161.5 | 75.0 | 457.0 | 308.0 |
| OOCYSTIS | .4 | .7 | - | - | - |
| SCENEDESMUS | - | - | - | - | 28.0 |
| CHLAMYDOMONAS | - | - | 5.0 | 15.0 | 7.0 |
| EUDORINA | - | 1.9 | 12.0 | - | - |
| UNKNOWN GREEN FLAGELLATE | 16.5 | 9.7 | 27.0 | 31.0 | 42.0 |
| CRYPTOMONAS | 22.7 | 26.1 | 230.0 | 294.0 | 756.0 |
| DINOBRYON | 256.2 C | 456.6 C | 220.0 C | 46.0 | 42.0 |
| GLENODINIUM | - | 1.5 | - | - | - |
| GYMNODINIUM | 12.3 | 18.3 | 7.0 | - | 7.0 |
| RHODOMONAS | 124.9 | 296.5 | 825.0 | 1912.0 | 973.0 |
| SYNURA | - | 1.1 A | 96.0 | 232.0 | 84.0 |
| OCHROMONAS | 223.6 | 412.9 | 425.0 | 480.0 | 301.0 |
| UNKNOWN OTHERS | 416.9 | 472.0 | 788.0 | 944.0 | 945.0 |
| TOTAL | 1424.1 | 9140.7 | 3637.0 | 6074.0 | 4977.0 |

CENTER STATION PHYTOPLANKTON 7/10/74
CELLS/ML

| NAME | SURF | 5 M | 5 M | 10 M | 10 M | 13 M | 13 M |
|---|---|---|---|---|---|---|---|
| ASTERIONELLA | - | 21.5 | - | - | - | - | - |
| EUNOTIA | - | - | - | .4 | - | - | - |
| FRAGILARIA | - | .8 | - | .8 | - | .5 | - |
| NAVICULA | - | - | - | - | - | 2.0 | - |
| NITZSCHIA | - | - | - | - | 7.0 | - | - |
| ANABAENA | - | - | - | 247.0 | - | 3.9 | - |
| ANKISTRODESMUS | - | 25.2 | 56.0 | 8.2 | 37.0 | - | - |
| COSMARIUM | - | .4 | - | .8 | 7.0 | - | - |
| GLOEOCYSTIS | - | 9.5 | 169.0 | 31.3 | - | .5 | - |
| OOCYSTIS | 7.0 | 12.4 | - | 17.3 | - | 15.7 | - |
| SCENEDESMUS | - | - | - | - | - | 2.0 | - |
| SCHROEDERIA | 113.0 | .8 | - | .8 C | 7.0 | 442.0 | 7.0 |
| QUADRIGULA | - | - | - | - | 7.0 | - | - |
| CHLAMYDOMONAS | - | - | 42.0 | - | - | .5 | - |
| EUDORINA | - | .8 A | - | - | - | - | - |
| CHROMULINA | 9404.0 | 6380.8 | 6969.0 | 13225.0 | 7640.0 | 1225.0 | 2017.0 |
| CRYPTOMONAS | 7.0 | 9.5 | 21.0 | 53.9 | 118.0 | - | 7.0 |
| DINOBRYON | - | - | - | - | - | 2.0 C | - |
| RHODOMONAS | 14.0 | 2.1 | - | .4 | - | - | - |
| OCHROMONAS | - | - | - | - | - | 1.5 | - |
| TOTAL | 9545.0 | 6463.8 | 7257.0 | 13586.0 | 7823.0 | 1695.5 | 2031.0 |

CENTER STATION PHYTOPLANKTON 8/ 7/74
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|
| CYCLOTELLA | - | - | .4 | 1.3 |
| MELOSIRA | - | .4 B | 2.4 B | 28.1 |
| STEPHANODISCUS | - | - | 2.4 | 1.3 |
| ASTERIONELLA | .4 | - | 2.9 | 6.7 |
| CYMBELLA | - | .4 | - | - |
| FRAGILARIA | 1.0 | 2.8 | 9.9 | 21.0 |
| NAVICULA | .4 | - | .8 | 2.1 |
| ANACYSTIS | - | - | - D | - |
| GLOEOTRICHIA | .5 A | .4 | .1 | .0 |
| ANKISTRODESMUS | - | 1.4 | - | - |
| COSMARIUM | 1.4 | .7 | 5.8 | 3.4 |
| GLOEOCYSTIS | 41.0 | .7 | .8 | - |
| OOCYSTIS | 13.0 | 59.1 | 2.5 | 5.0 |
| SCENEDESMUS | - | - | 2.4 | 3.4 |
| SCHROEDERIA | 7.4 | 7.4 | 21.7 | 15.5 |
| SPHAEROCYSTIS | - | 165.6 | 320.6 | 85.6 |
| STAURASTRUM | .4 | .4 | .8 | .1 |
| QUADRIGULA | - | - | - | 3.4 |
| UNKNOWN GREEN COCCOID | - | 1.4 | 2.1 | 1.3 |
| CHLAMYDOMONAS | - | .7 | .8 | .4 |
| EUDORINA | 1.4 A | 1.0 A | 1.2 A | .4 |
| HETEROMASTIX | 1631.7 | 1388.0 | 221.0 | 2.9 |
| PANDORINA | 7.0 A | - | - | - |
| CERATIUM | .4 | - | - | - |
| CHROMULINA | 96.6 | 66.9 | 4.9 | 2.1 |
| CRYPTOMONAS | 9.8 | .4 | 55.8 | 149.9 |
| GYMNODINIUM | 1.4 | .4 | .8 | - |
| RHODOMONAS | 54.3 | 75.6 | 15.2 | - |
| OCHROMONAS | 48.3 | 30.8 | 224.4 | 138.6 |
| TOTAL | 1968.2 | 1804.2 | 899.5 | 472.5 |

CENTER STATION PHYTOPLANKTON 9/12/74
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|
| MELOSIRA | 1.7 B | - | - | 7.0 |
| STEPHANODISCUS | 1.2 | 3.0 | 3.3 | 42.0 |
| ASTERIONELLA | 6.6 | - | - | - |
| COCCONEIS | - | 1.0 | - | - |
| FRAGILARIA | 10.3 | 8.0 | 5.8 | 11.6 |
| NAVICULA | - | - | 1.2 | 1.0 |
| NITZSCHIA | - | 2.0 | 12.3 | 24.0 |
| ANABAENA | 763.0 | 1072.0 | 1181.6 | 226.8 |
| SCHIZOTHRIX | - | - | - | .4 B |
| ANKISTRODESMUS | - | - | - | 4.6 |
| COSMARIUM | .8 | - | - | - |
| OOCYSTIS | 4.5 | 16.0 | 11.9 | 3.5 |
| SCENEDESMUS | 1.6 | - | - | 1.4 |
| SCHROEDERIA | 24.7 | 33.0 | 42.0 | 7.7 |
| SPHAEROCYSTIS | 70.6 | 16.0 | 56.4 | 107.0 |
| STAURASTRUM | - | 15.0 | 11.9 | 9.8 |
| TETRAEDRON | - | - | - | .4 |
| QUADRIGULA | - | - | 2.9 | - |
| UNKNOWN GREEN COCCOID | 1.2 | - | - | 1.8 |
| CHLAMYDOMONAS | .8 | 5.0 | - | - |
| EUDORINA | 2.1 A | - | - | - |
| HETEROMASTIX | 265.1 | 37.0 | 30.1 | 2.1 |
| CERATIUM | - | .4 | - | - |
| CHROMULINA | 9.5 | 403.0 | 396.7 | 20.3 |
| CRYPTOMONAS | 69.4 | 175.0 | 160.6 | 94.5 |
| GYMNODINIUM | .4 | - | - | - |
| NEPHROSELMIS | - | 6.0 | - | - |
| RHODOMONAS | 15.2 | 291.0 | 189.1 | 7.7 |
| OCHROMONAS | 202.0 | 2.0 | 7.0 | 10.5 |
| STIPITOCOCCUS | - | 27.0 | - | - |
| TOTAL | 1450.6 | 2112.4 | 2112.8 | 619.2 |

CENTER STATION PHYTOPLANKTON 10/ 9/74
CELLS/ML

| NAME | SURF | 5 M | 10 M | 10 M | 13 M |
|---|---|---|---|---|---|
| MELOSIRA | .7 B | 1.9 B | .5 B | - | - |
| STEPHANODISCUS | 56.7 | 6.0 | 55.6 | 54.0 | 63.9 |
| ACHNANTHES | - | - | - | - | 3.4 |
| COCCONEIS | 1.4 | - | .2 | .4 | 2.5 |
| CYMBELLA | .6 | - | - | - | .4 |
| FRAGILARIA | .7 | - | .5 | 1.0 | .8 |
| NAVICULA | - | - | .5 | - | - |
| NITZSCHIA | 17.2 | 9.3 | 7.9 | 21.0 | 14.7 |
| PINNULARIA | - | - | .4 | - | - |
| ANABAENA | 543.9 | 995.9 | 1070.0 | 756.0 | 604.8 |
| CHLORELLA | - | - | - | - | 42.0 |
| COSMARIUM | .7 | - | - | 1.0 | .4 |
| GLOEOCYSTIS | 3.5 | 3.0 | 2.5 | 5.0 | 3.8 |
| OOCYSTIS | 85.8 | 113.8 | 209.5 | 94.0 | 1033.0 |
| SCENEDESMUS | - | - | - | - | 3.4 |
| SCHROEDERIA | 7.4 | 7.5 | 836.0 | 6.0 | 5.0 |
| SPHAEROCYSTIS | 109.2 | 110.4 | 86.6 | 29.0 | - |
| STAURASTRUM | 13.6 | 13.1 | 13.8 | 7.0 | 9.2 |
| UNKNOWN GREEN COCCOID | .7 | - | 1.0 | 1.0 | - |
| CHLAMYDOMONAS | 66.8 | 61.2 | 80.7 | 94.0 | 37.4 |
| EUDORINA | - | - | .5 A | .4 A | .4 A |
| HETEROMASTIX | 1.0 | 4.1 | 3.9 | 3.0 | 1.3 |
| PANDORINA | - | - | - | - | .4 A |
| CERATIUM | .7 | - | - | .4 | - |
| CHROMULINA | 1199.0 | 1450.0 | 1620.6 | 1376.0 | 1343.2 |
| CRYPTOMONAS | 90.3 | 1264.0 | 101.4 | 81.0 | 63.0 |
| NEPHROSELMIS | 10.9 | 1.4 9 | 3.0 | 3.0 | 7.6 |
| RHODOMONAS | 30.8 | 29.8 | 17.2 | 10.0 | 7.1 |
| OCHROMONAS | 1.4 | - | - | - | 1.7 |
| STIPITOCOCCUS | 152.0 | 220.0 | 198.0 | 99.0 | 181.4 |
| TOTAL | 2394.9 | 4291.2 | 4310.0 | 2642.2 | 3430.8 |

CENTER STATION PHYTOPLANKTON 12/ 4/74
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|
| MELOSIRA | - | .5 | - | - |
| STEPHANODISCUS | - | 48.0 | 47.0 | 37.0 |
| AMPHORA | - | - | .3 | - |
| FRAGILARIA | 15.0 | 16.0 | 22.0 | 14.0 |
| GOMPHONEMA | - | - | .3 | - |
| NAVICULA | - | - | .7 | 1.0 |
| NITZSCHIA | - | 32.0 | 12.0 | 24.0 |
| PINNULARIA | .3 | - | - | - |
| ANACYSTIS | - | - | - | 9.0 |
| ANABAENA | 13.0 | 30.0 | - | - |
| ANKISTRODESMUS | .7 | - | - | - |
| COELASTRUM | 1.0 | - | - | - |
| OOCYSTIS | .7 | - | - | - |
| SCENEDESMUS | 7.0 | 1.0 | 1.0 | 1.0 |
| STAURASTRUM | 1.0 | - | .7 | .3 |
| CHLAMYDOMONAS | 76.0 | 106.0 | 94.0 | 107.0 |
| HETEROMASTIX | 10.0 | 12.0 | 12.0 | 15.0 |
| CHROMULINA | 727.0 | 583.0 | 614.0 | 333.0 |
| CRYPTOMONAS | 10.0 | 9.0 | 8.0 | 9.0 |
| DINOBRYON | - | 2.0 | 1.0 | 1.0 |
| HEMIDINIUM | - | - | 7.0 | - |
| RHODOMONAS | 65.0 | 53.0 | 70.0 | 65.0 |
| OCHROMONAS | 1.0 | 1.0 | 1.0 | 1.0 |
| STIPITOCOCCUS | 129.0 | 132.0 | 94.0 | 89.0 |
| TOTAL | 1056.7 | 1025.5 | 985.0 | 706.3 |

CENTER STATION PHYTOPLANKTON 3/ 3/75
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|
| ASTERIONELLA | - | 2.0 | - | - |
| FRAGILARIA | .5 | - | - | - |
| CHLORELLA | - | - | .3 | - |
| COSMARIUM | - | .5 | - | - |
| OOCYSTIS | .5 | - | 1.0 | - |
| CHLAMYDOMONAS | 2.0 | - | 2.0 | 2.0 |
| HETEROMASTIX | 1.0 | - | - | - |
| CHROMULINA | .5 | - | 6.0 | - |
| CRYPTOMONAS | 5.0 | 7.0 | 3.0 | 6.0 |
| GYMNODINIUM | 1.0 | - | 1.0 | - |
| RHODOMONAS | 7.0 | 2.0 | - | - |
| OCHROMONAS | 1.0 | 56.0 | 133.0 | 10.0 |
| UNKNOWN OTHERS | 77.0 | - | - | - |
| TOTAL | 95.5 | 67.5 | 146.3 | 18.0 |

CENTER STATION PHYTOPLANKTON 6/ 5/75
CELLS/ML

| NAME | SURF | 10 M | 13 M |
|---|---|---|---|
| CYCLOTELLA | 1890.9 | 1183.4 | 189.1 |
| ASTERIONELLA FORMOSA | 2831.4 | 2793.6 | 582.8 |
| SYNEDRA | - | - | 3.1 |
| ANKISTRODESMUS | 574.2 | 106.7 | 24.8 |
| COELASTRUM MICROPORUM | 326.7 | 455.9 | 68.2 |
| COSMARIUM | - | 9.7 | - |
| CHLAMYDOMONAS | 930.6 | 649.9 | 93.0 |
| CHROMULINA | 405.9 D | 126.1 | 18.6 D |
| CRYPTOMONAS EROSA | - | 19.4 | 9.3 |
| CRYPTOMONAS OVATA | 613.8 | 485.0 | 46.5 |
| CRYPTOMONAS CAUDATA | 9.9 | 87.3 | 9.3 |
| CRYPTOMONAS ROSTRATIFORMIS | - | 9.7 | - |
| DINOBRYON | 1178.1 C | 766.3 C | 198.4 C |
| DINOBRYON SERTULARIA | - | - | 9.3 |
| GYMNODINIUM | 29.7 | 19.4 | - |
| OCHROMONAS | 19.8 | 38.8 | - |
| UNKNOWN OTHERS | 2385.9 | 4083.7 | 37.2 |
| UNKNOWN COLONIES | - | - | 55.8 A |
| TOTAL | 11196.9 | 10834.9 | 2058.4 |

CENTER STATION PHYTOPLANKTON 7/ 9/75
CELLS/ML

| NAME | SURF | 5 M | 5 M | 10 M | 13 M |
|---|---|---|---|---|---|
| STEPHANODISCUS ASTREA | - | 11.8 | - | 11.8 | 23.6 |
| STEPHANODISCUS NIAGARAE | - | 5.9 | 11.8 | 23.6 | 11.8 |
| ASTERIONELLA FORMOSA | 6490.0 | 16626.2 | 16177.8 | 17941.9 | 13369.4 |
| CYMBELLA | 5.9 | - | - | - | - |
| NAVICULA | 47.2 | 5.9 | 5.9 | - | 11.8 |
| NITZSCHIA | - | 17.7 | - | 5.9 | 5.9 |
| SYNEDRA | 11.8 | 17.7 | 11.8 | 5.9 | - |
| ANABAENA | - | - | - | - | 5.9 |
| ANABAENA CIRCINALIS | 1693.3 | 1233.1 | 4124.1 | 383.5 | - |
| OSCILLATORIA | - | - | 5.9 | - | - |
| GLOEOTRICHIA | 118.0 | 5.9 | - | - | - |
| ANKISTRODESMUS | - | - | - | - | 11.8 |
| DICTYOSPHAERIUM | - | - | - | 82.6 | - |
| GLOEOCYSTIS GIGAS | - | 17.7 | - | 5.9 | - |
| OOCYSTIS SOLITAIRE | - | - | - | - | 5.9 |
| HETEROMASTIX | 1233.1 | - | - | - | - |
| TRACHELOMONAS | 5.9 | - | - | - | - |
| CHROMULINA | - | 507.4 D | 318.6 D | 135.7 D | 41.3 D |
| CRYPTOMONAS OVATA | - | 5.9 | - | - | 5.9 |
| CRYPTOMONAS CAUDATA | 94.4 | 35.4 | 47.2 | 47.2 | - |
| CRYPTOMONAS ROSTRATIFORMIS | - | - | - | 5.9 | - |
| DINOBRYON | 23.6 | 5.9 C | 29.5 C | - | 5.9 C |
| DINOBRYON SERTULARIA | - | 17.7 | 41.3 | - | 5.9 |
| NEPHROSELMIS | - | 118.0 | 112.1 | 76.7 | 35.4 |
| RHODOMONAS | 5.9 | - | - | - | - |
| OCHROMONAS | 106.2 | 395.3 | 241.9 | 418.9 | 88.5 |
| CHRYSOSTRELLA | - | 5.9 | - | - | - |
| UNKNOWN OTHERS | - | 70.8 | 70.8 | 76.7 | 82.6 |
| UNKNOWN FLAGELLATES | 702.1 | 377.6 | 513.3 | 283.2 | 123.9 |
| TOTAL | 10537.4 | 19481.8 | 21712.0 | 19505.4 | 13835.5 |

CENTER STATION PHYTOPLANKTON 8/13/75
CELLS/ML

| NAME | SURF | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|---|
| CYCLOTELLA GLOMERATA | - | - | - | - | 2.0 D |
| MELOSIRA GRANULATA VAR. ANGUSTISSIMA | 54.6 B | 89.7 B | 93.0 B | 425.9 | 379.8 B |
| STEPHANODISCUS NIAGARAE | .3 | .5 | .9 | 2.7 B | .5 |
| ASTERIONELLA FORMOSA | - | 3.2 | 1.5 | 20.0 | - |
| FRAGILARIA CROTONENSIS | - | - | - | 23.7 | - |
| NAVICULA | .3 | .5 | - | - | .5 |
| NITZSCHIA | - | - | .6 | .9 | - |
| SYNEDRA | - | .9 | - | - | - |
| SYNEDRA ACTINASTRIODES | 10.2 | 12.0 | - | - | - |
| GYROSIGMA | - | - | - | - | .5 |
| ANABAENA CIRCINALIS | 271.8 | 746.6 | 300.1 | 118.3 | 34.3 |
| OSCILLATORIA | - | .5 | - | - | 3.9 |
| GLOEOTRICHIA | 35.1 | .9 A | 15.5 | - | - |
| CHLORELLA | - | 1.8 | - | - | - |
| COELASTRUM MICROPORUM | - | 1.8 A | - | .9 A | - |
| COSMARIUM | .3 | - | .3 | - | - |
| COSMARIUM OVALE | - | - | - | - | 1.5 |
| DICTYOSPHAERIUM | 2.7 | 2.8 | 1.9 | 60.1 | .5 A |
| ELAKATOTHRIX GELATINOSA | - | - | - | - | 6.9 |
| GLOEOCYSTIS GIGAS | .9 | - | .3 | - | 2.5 |
| GLOEOCYSTIS AMPLA | - | .9 D | - | - | - |
| OOCYSTIS PARVA | 207.3 | 250.7 | 204.6 | 151.1 | 91.6 |
| OOCYSTIS SOLITAIRE | 4.2 | 4.1 | 6.5 | 3.6 | - |
| SCENEDESMUS | - | - | - | - | 3.9 |
| SCHROEDERIA | 12.6 | 41.9 | 15.5 | 30.9 | 9.3 |
| SPHAEROCYSTIS SCHROETERI | 3.6 A | 12.0 A | 86.5 | 14.6 | 60.8 |
| SPHAEROCYSTIS SCHROETERI DAUGHTER CE | - | - | - | 4.6 E | 19.6 E |
| STAURASTRUM | .3 | 1.4 | .6 | 1.8 | 1.5 |
| QUADRIGULA LACUSTRIS | - | - | - | - | 11.3 |
| CLOSTERIUM | - | - | - | - | .5 |
| NEPHROCYTIUM | - | 1.8 | - | 7.3 | - |
| WESTELLA BOTRYOIDES | - | 2.3 | - | - | - |
| UNKNOWN GREEN COCCOID | .9 | 7.8 | - | - | 3.9 |
| CHLAMYDOMONAS | .9 | .9 | .6 | - | 1.0 |
| EUDORINA ELEGANS | 3.0 A | 1.8 A | 2.2 A | 1.8 A | .5 A |
| HETEROMASTIX | 63.3 | 68.1 | 22.9 | 11.8 | - |
| PANDORINA | - | - | .3 A | - | - |
| PANDORINA MORUM | .3 A | - | - | - | - |
| CHROMULINA | 136.2 D | 542.3 D | 244.6 D | 91.0 D | 137.7 D |
| CRYPTOMONAS CAUDATA | 1.8 | 2.8 | 34.7 | 13.7 | - |
| CRYPTOMONAS MARSSONII | 1.2 | .9 | 5.6 | - | - |
| CRYPTOMONAS ROSTRATIFORMIS | - | .5 | 6.8 | 15.5 | 61.3 |
| GYMNODINIUM | - | - | .9 | 1.8 | - |
| RHODOMONAS | 1.2 | - | - | - | - |
| OCHROMONAS | 1.2 | 121.9 | 32.2 | 22.8 | 4.4 |
| UNKNOWN OTHERS | - | - | 8.7 | 4.6 | 11.3 |
| UNKNOWN COLONIES | - | - | - | - | 1.0 A |
| UNKNOWN FLAGELLATES | 18.3 | 24.4 | 1.9 | 1.8 | 8.3 |
| SPIROGYRA | - | - | - | - | .5 |
| TOTAL | 832.5 | 2034.6 | 1089.3 | 1031.0 | 860.9 |

CENTER STATION PHYTOPLANKTON 9/18/75
CELLS/ML

| NAME | SURF | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|---|
| MELOSIRA GRANULATA VAR. ANGUSTISSIMA | - | - | 1.4 B | - | 1.9 B |
| STEPHANODISCUS NIAGARAE | 11.8 | 7.4 | 10.1 | 16.1 | 8.7 |
| ASTERIONELLA FORMOSA | - | 4.6 | .9 | - | - |
| COCCONEIS | - | - | - | .5 | - |
| FRAGILARIA CROTONENSIS | 7.3 | - | - | 12.4 | - |
| NAVICULA | - | 1.8 | - | - | - |
| SYNEDRA | .5 | - | 1.4 | .9 | 1.0 |
| SYNEDRA ACTINASTRIODES | 1.5 | 38.2 | 5.1 | 4.1 | 27.2 |
| DIATOMA | - | .5 | .5 | .5 | - |
| ANABAENA CIRCINALIS | 98.0 | 168.8 | 234.6 | 316.5 | 374.4 |
| OSCILLATORIA | .5 | 3.7 | .5 D | .5 D | - |
| SCHIZOTHRIX | - | - | - | 1.4 | - |
| UNKNOWN BLUE GREEN FILAMENT | .5 | - | - | - | - |
| CHLORELLA | .5 | - | - | - | - |
| COSMARIUM OVALE | .5 | .9 | .9 | .5 | 1.9 |
| DICTYOSPHAERIUM | .5 A | 1.8 | .9 | 3.7 | 7.8 |
| GLOEOCYSTIS GIGAS | 1.5 | - | - | - | 1.9 |
| OOCYSTIS PARVA | 11.8 | - | 8.3 | 15.6 | 7.8 |
| OOCYSTIS SOLITAIRE | 2.0 | 1.4 | 3.7 | 2.8 | 1.9 |
| SCHROEDERIA | 120.0 | 279.7 | 92.9 | 199.2 | 283.2 |
| SPHAEROCYSTIS SCHROETERI | .5 A | 2.8 A | .9 A | 3.2 A | 4.8 A |
| STAURASTRUM | 8.8 | 7.8 | 6.4 | 12.4 | 10.7 |
| NEPHROCYTIUM | - | 3.7 | 3.2 | 6.0 | - |
| WESTELLA BOTRYOIDES | 90.2 | 52.4 | 181.2 | 36.8 | 98.9 |
| UNKNOWN GREEN COCCOID | 3.4 | - | - | - | - |
| CHLAMYDOMONAS | 26.5 | 25.3 | 23.0 | 28.5 | 34.0 |
| EUDORINA ELEGANS | 1.0 A | .5 A | - | - | - |
| PANDORINA | .5 A | - | - | - | - |
| PANDORINA MORUM | - | - | .5 A | - | - |
| UNKNOWN COLONY | - | - | .5 A | - | - |
| CERATIUM HIRUNDINELLA | - | 1.4 | - | - | - |
| CHROMULINA | 188.2 D | 330.7 D | 159.2 D | 189.5 D | 381.2 D |
| CRYPTOMONAS OVATA | 22.5 | 27.1 | 22.5 | 56.1 | - |
| CRYPTOMONAS CAUDATA | 5.9 | 18.9 | 18.4 | 8.7 | 88.3 |
| CRYPTOMONAS MARSSONII | 7.8 | 6.0 | 9.7 | 3.2 | 2.9 |
| CRYPTOMONAS ROSTRATIFORMIS | 176.9 | 191.8 | 164.7 | 96.1 | 26.2 |
| DINOBRYON | - | - | - | - | 1.0 C |
| GYMNODINIUM | .5 | - | - | - | - |
| NEPHROSELMIS | 82.8 | 108.6 | 57.5 | 49.7 | 105.7 |
| RHODOMONAS | 7.3 | 6.4 | .9 | - | - |
| SYNURA | - | .5 A | - | - | - |
| OCHROMONAS | 19.1 | 62.1 | 74.5 | 92.0 | 219.2 |
| STIPITOCOCCUS | 40.7 | - | 29.4 | 40.5 | - |
| UNKNOWN OTHERS | - | 2.3 | 3.7 | 5.5 | 12.6 |
| UNKNOWN COLONIES | - | - | 17.5 | - | - |
| UNKNOWN FLAGELLATES | 39.7 | 54.3 | 6.0 | 8.7 | 10.7 |
| TOTAL | 979.0 | 1411.3 | 1140.8 | 1211.6 | 1727.6 |

CENTER STATION PHYTOPLANKTON 10/15/75
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|
| CYCLOTELLA GLOMERATA | - | - | 1.4 D | - |
| MELOSIRA GRANULATA VAR. ANGUSTISSIMA | 2.2 B | .9 B | .9 B | .9 B |
| STEPHANODISCUS NIAGARAE | 226.9 | 254.8 | 251.6 | 267.3 |
| ACHNANTHES | - | .9 | - | - |
| AMPHORA | - | - | - | .5 |
| ASTERIONELLA FORMOSA | .9 | - | - | - |
| COCCONEIS | - | .5 | - | - |
| CYMBELLA | - | .5 | .5 | - |
| FRAGILARIA CROTONENSIS | - | - | 8.7 | - |
| GOMPHONEMA | - | 3.2 A | - | - |
| NAVICULA | 1.9 | .5 | 1.8 | 1.8 |
| NITZSCHIA | - | 4.6 | 1.4 | .9 |
| PINNULARIA | - | - | - | .5 |
| SYNEDRA | - | 1.4 | - | 1.4 |
| SYNEDRA ACTINASTRIODES | 95.5 | 181.2 | 141.2 | 136.2 |
| UNKNOWN COLONIES | - | - | .5 D | - |
| ANABAENA CIRCINALIS | 567.0 | 297.6 | 1008.8 | 353.7 |
| OSCILLATORIA | 3.4 | 2.8 | 3.2 | 6.0 |
| COELASTRUM MICROPORUM | 2.5 A | - | - | - |
| COSMARIUM OVALE | .6 | .5 | 1.4 | .5 |
| DICTYOSPHAERIUM | 5.6 | - | .9 A | - |
| ELAKATOTHRIX | - | - | 1.8 | - |
| GLOEOCYSTIS GIGAS | .3 | - | .5 | - |
| OOCYSTIS PARVA | - | 1.8 | 3.7 | 9.2 |
| OOCYSTIS SOLITAIRE | 4.7 | 2.8 | 3.2 | 4.1 |
| SCHROEDERIA | 3.4 | - | 1.8 | 1.8 |
| SPHAEROCYSTIS SCHROETERI | - | 1.4 A | - | 3.2 A |
| STAURASTRUM | 2.5 | 2.3 | 4.6 | 3.7 |
| NEPHROCYTIUM | - | - | 1.8 | - |
| WESTELLA BOTRYOIDES | 1.9 | - | - | - |
| RADIOCOCCUS | - | - | 7.4 | - |
| UNKNOWN GREEN COCCOID | 1.5 | - | 1.8 | - |
| CHLAMYDOMONAS | 7.8 | 2.3 | 3.2 | 4.6 |
| EUDORINA ELEGANS | .3 A | .5 A | .5 A | .5 A |
| HETEROMASTIX | 34.4 | - | - | - |
| PANDORINA | .6 A | - | - | - |
| CERATIUM HIRUNDINELLA | - | .9 | .9 | - |
| CHROMULINA | 236.8 D | 144.0 D | 125.1 D | 113.6 D |
| CRYPTOMONAS OVATA | 11.8 | 14.7 | 21.2 | 29.4 |
| CRYPTOMONAS CAUDATA | 21.4 | 16.1 | 22.5 | 17.5 |
| CRYPTOMONAS MARSSONII | 1.2 | .9 | 1.4 | 3.7 |
| CRYPTOMONAS ROSTRATIFORMIS | 26.7 | 23.0 | 12.0 | 12.0 |
| DINOBRYON SERTULARIA | .6 | - | - | - |
| NEPHROSELMIS | - | 7.4 | 5.1 | 7.8 |
| RHODOMONAS | 4.7 | - | - | - |
| OCHROMONAS | 5.9 | 20.2 | 18.9 | 18.4 |
| STIPITOCOCCUS | 19.5 | 6.4 | .9 | 1.8 |
| CYSTS (DINOFLAGELLATES) | - | .5 C | - | - |
| KEPHRYION | - | - | .5 | - |
| UNKNOWN OTHERS | - | 2.8 | 1.4 | 1.8 |
| UNKNOWN COLONIES | - | .5 A | - | - |
| UNKNOWN FLAGELLATES | 26.7 | 10.6 | 18.4 | 6.0 |
| TOTAL | 1319.0 | 1008.3 | 2653.3 | 1008.8 |

CENTER STATION PHYTOPLANKTON 5/20/76
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|
| STEPHANODISCUS | 2606.4 | 2598.0 | - | 2419.2 |
| STEPHANODISCUS ASTREA | - | - | 2147.6 | - |
| STEPHANODISCUS NIAGARAE | - | - | 5.9 | 12.6 |
| ASTERIONELLA FORMOSA | 1752.0 | 2358.0 | 2147.6 | 2772.0 |
| NITZSCHIA | 4.8 | 6.0 | - | - |
| DIATOMA | - | - | - | 6.3 |
| UNKNOWN FUNGUS && | 336.0 | - | - | - |
| OSCILLATORIA | - | 12.0 | - | 6.3 |
| ANKISTRODESMUS | 686.4 | 840.0 | 772.9 | 699.3 |
| SCHROEDERIA | 9.6 | 18.0 | - | - |
| UNKNOWN GREEN COCCOID | - | 186.0 | 100.3 | 63.0 |
| CARTERIA | 9.6 | - | - | - |
| CHLAMYDOMONAS | 72.0 | 222.0 | 177.0 | 214.2 |
| HETEROMASTIX | 14.4 | - | - | - |
| CHROMULINA | 1968.0 D | 1920.0 D | 1604.8 D | 1738.8 D |
| CRYPTOMONAS | 355.2 | 300.0 | 389.4 | 642.6 |
| CRYPTOMONAS EROSA | - | - | - | 1020.6 |
| CRYPTOMONAS CAUDATA | 216.0 | 660.0 | 607.7 | - |
| DINOBRYON | 379.2 C | 636.0 C | 466.1 C | 491.4 C |
| DINOBRYON SERTULARIA | 427.2 | 378.0 | 259.6 | 296.1 |
| GLENODINIUM | 4.8 | 12.0 | - | - |
| NEPHROSELMIS | 9.6 | 48.0 | 70.8 | 69.3 |
| RHODOMONAS | 470.4 | 312.0 | 324.5 | 25.2 |
| OCHROMONAS | 187.2 | 138.0 | 177.0 | 50.4 |
| CHRYSOSTRELLA | 4.8 | - | - | - |
| CHLOROBOTRYS | 196.8 | 186.0 | 342.2 | 296.1 |
| UNKNOWN OTHERS | 259.2 | 858.0 | 678.5 | 1215.9 |
| UNKNOWN COLONIES | 14.4 A | 66.0 A | 88.5 A | 88.2 A |
| UNKNOWN FLAGELLATES | 158.4 | 330.0 | 265.5 | 333.9 |
| TOTAL | 10142.4 | 12084.0 | 10625.9 | 12461.4 |

CENTER STATION PHYTOPLANKTON 6/ 5/76
CELLS/ML

| NAME | 10 M | |
|---|---|---|
| CYCLOTELLA | 1183.4 | |
| ASTERIONELLA FORMOSA | 2793.6 | |
| ANKISTRODESMUS | 106.7 | |
| COELASTRUM MICROPORUM | 455.9 | |
| COSMARIUM | 9.7 | |
| CHLAMYDOMONAS | 649.9 | |
| CHROMULINA | 126.1 | D |
| CRYPTOMONAS EROSA | 19.4 | |
| CRYPTOMONAS OVATA | 485.0 | |
| CRYPTOMONAS CAUDATA | 87.3 | |
| CRYPTOMONAS ROSTRATIFORMIS | 9.7 | |
| DINOBRYON | 766.3 | C |
| GYMNODINIUM | 19.4 | |
| OCHROMONAS | 38.8 | |
| UNKNOWN OTHERS | 4083.7 | |
| TOTAL | 10834.9 | |

CENTER STATION PHYTOPLANKTON 6/30/76
CELLS/ML

| NAME | SURF | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|---|
| STEPHANODISCUS ASTREA | 3.4 | - | - | - | - |
| STEPHANODISCUS NIAGARAE | 3.4 | - | - | - | - |
| ASTERIONELLA FORMOSA | 4403.0 | 5052.4 | 3726.0 | 4584.0 | 1268.5 |
| NITZSCHIA | - | - | 18.0 | - | - |
| SYNEDRA | 17.0 | 13.6 | 6.0 | - | 5.9 |
| DIATOMA | - | 3.4 | - | - | - |
| UNKNOWN FUNGUS && | 1125.4 D | 1635.4 D | - | - | - |
| OSCILLATORIA | - | - | - | 6.0 | - |
| ANKISTRODESMUS | - | - | 6.0 | - | - |
| GLOEOCYSTIS | - | - | 6.0 | 12.0 | - |
| SCHROEDERIA | 71.4 | 47.6 | 30.0 | 18.0 | 11.8 |
| SPHAEROCYSTIS SCHROETERI | 3.4 | - | - | - | - |
| CLOSTERIUM | 3.4 | - | - | - | - |
| TROCHISCIA | - | 6.8 | - | - | - |
| UNKNOWN GREEN COCCOID | - | - | 60.0 D | 18.0 D | - |
| CHLAMYDOMONAS | 37.4 | 23.8 | - | 30.0 | 11.8 |
| CHROMULINA | 3325.2 D | 3923.6 D | 3840.0 D | 1344.0 D | 466.1 D |
| CRYPTOMONAS | 54.4 | 10.2 | 6.0 | 36.0 | 17.7 |
| CRYPTOMONAS CAUDATA | 17.0 | 34.0 | 36.0 | 84.0 | 5.9 |
| NEPHROSELMIS | 98.6 | 37.4 | 144.0 | 54.0 | 11.8 |
| OCHROMONAS | - | 68.0 | 66.0 | 18.0 | 5.9 |
| CHLOROBOTRYS | 17.0 A | - | - | - | - |
| KEPHRYION | - | - | - | 6.0 | - |
| UNKNOWN OTHERS | 71.4 | 85.0 | 6.0 | 102.0 | 17.7 |
| UNKNOWN FLAGELLATES | - | 23.8 | - | - | - |
| TOTAL | 9251.4 | 10965.0 | 7950.0 | 6312.0 | 1823.1 |

CENTER STATION PHYTOPLANKTON 7/21/76
CELLS/ML

| NAME | SURF | 5 M | 10 M | 10 M | 13 M |
|---|---|---|---|---|---|
| MELOSIRA GRANULATA VAR. ANGUSTISSIMA | 40.8 B | 68.0 B | 40.8 B | 95.2 B | 54.4 B |
| STEPHANODISCUS ASTREA | - | - | - | - | 3.4 |
| STEPHANODISCUS NIAGARAE | 3.4 | - | - | 6.8 | - |
| AMPHORA OVALIS | - | - | - | 3.4 | - |
| ASTERIONELLA FORMOSA | 680.0 | 1040.4 | 1353.2 | 1822.4 | 945.2 |
| FRAGILARIA CROTONENSIS | - | - | 64.6 | 319.6 | 57.8 |
| NAVICULA | - | - | 3.4 | - | - |
| NITZSCHIA | - | 3.4 | 10.2 | - | - |
| SYNEDRA | 10.2 | - | 6.8 | 3.4 | 17.0 |
| SYNEDRA ACTINASTRIODES | 452.4 | 68.0 | 193.8 | 615.4 | 336.6 |
| DIATOMA | 3.4 | - | - | - | - |
| ANABAENA CIRCINALIS | 9054.2 | 2866.2 | 132.6 | 629.0 | 788.8 |
| OSCILLATORIA | - | - | - | - | 6.8 |
| GLOEOTRICHIA | 3.4 A | - | - | - | - |
| ANKISTRODESMUS | 3.4 | 3.4 | - | - | - |
| COSMARIUM OVALE | - | - | - | 6.8 | - |
| OOCYSTIS | 6.8 A | - | - | - | - |
| OOCYSTIS PARVA | - | - | 27.2 | 47.6 | - |
| SCHENEDESMUS BIJUGA | - | - | - | 13.6 | - |
| SCHROEDERIA | 68.0 | 34.0 | 51.0 | 37.4 | 10.2 |
| SPHAEROCYSTIS SCHROETERI | 3.4 | - | - | - | 3.4 A |
| TETRAEDRON | - | - | - | - | 3.4 |
| CHLAMYDOMONAS | - | - | - | 6.8 | 3.4 |
| PANDORINA | - | - | - | 3.4 A | - |
| TRACHELOMONAS | - | - | - | 6.8 | - |
| CHROMULINA | 2094.4 D | 741.2 D | 867.0 D | 867.0 D | 1241.0 D |
| CRYPTOMONAS | 6.8 | - | - | - | - |
| CRYPTOMONAS OVATA | - | 3.4 | 13.6 | 30.6 | - |
| CRYPTOMONAS CAUDATA | - | 139.4 | 20.4 | 40.8 | 3.4 |
| CRYPTOMONAS MARSSONII | - | 3.4 | - | 6.8 | - |
| CRYPTOMONAS ROSTRATIFORMIS | - | - | 30.6 | 34.0 | 6.8 |
| GLENODINIUM | 3.4 | - | 3.4 | - | - |
| NEPHROSELMIS | 91.8 | 231.2 | 149.6 | 200.6 | 13.6 |
| RHODOMONAS | 207.4 | - | - | - | - |
| OCHROMONAS | 227.8 | 435.2 | 224.4 | 275.4 | 6.8 |
| CYSTS (DINOFLAGELLATES) | 3.4 C | - | - | - | - |
| UNKNOWN OTHERS | 193.8 | 61.2 | 61.2 | 51.0 | 44.2 |
| UNKNOWN FLAGELLATES | - | 17.0 | 23.8 | 37.4 | 17.0 |
| TOTAL | 13168.2 | 5715.4 | 3277.6 | 5161.2 | 3563.2 |

CENTER STATION PHYTOPLANKTON 8/17/76
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M | 13 M |
|---|---|---|---|---|---|
| MELOSIRA GRANULATA VAR. ANGUSTISSIMA | 18.9 B | - | - | - | - |
| STEPHANODISCUS NIAGARAE | 25.2 | 15.3 | - | - | 9.8 |
| RHIZOSOLENIA ERIENSIS | - | 5.1 | 4.9 | 4.8 | - |
| ASTERIONELLA FORMOSA | 6.3 | - | 73.5 | - | - |
| FRAGILARIA CROTONENSIS | - | - | - | 52.8 | - |
| SYNEDRA ACTINASTRIODES | 277.2 | 198.9 | - | 172.8 | 308.7 |
| DIATOMA | 6.3 | - | 19.6 | - | - |
| ANABAENA CIRCINALIS | 151.2 | 907.8 | 676.2 | - | - |
| ANKISTRODESMUS | - | - | 4.9 | - | - |
| GLOEOCYSTIS GIGAS | - | 5.1 | - | - | - |
| OOCYSTIS SOLITAIRE | 6.3 | 5.1 | - | - | - |
| SCHROEDERIA SETIGERA | 806.4 | 678.3 | 539.0 | 595.2 | 641.9 |
| STAURASTRUM | - | - | - | 4.8 | - |
| TETRAEDRON | - | - | 4.9 | 4.8 | - |
| UNKNOWN GREEN COCCOID | 6.3 D | - | - | - | - |
| CHLAMYDOMONAS | - | 5.1 | - | - | - |
| EUDORINA ELEGANS | 6.3 A | 5.1 A | - | - | - |
| CHROMULINA | 3219.3 D | 2361.3 D | - | - | - |
| CRYPTOMONAS OVATA | 138.6 | 40.8 | 53.9 | 19.2 | 19.6 |
| CRYPTOMONAS CAUDATA | 132.3 | 173.4 | 73.5 | 14.4 | 14.7 |
| CRYPTOMONAS MARSSONII | 88.2 | 56.1 | 19.6 | 9.6 | 34.3 |
| CRYPTOMONAS ROSTRATIFORMIS | 63.0 | 45.9 | 4.9 | 19.2 | 14.7 |
| NEPHROSELMIS | 207.9 | 112.2 | 147.0 | 110.4 | 93.1 |
| SYNURA | - | - | 2611.7 D | 2625.6 D | 2611.7 D |
| OCHROMONAS | 207.9 | 112.2 | 78.4 | 72.0 | 49.0 |
| UNKNOWN OTHERS | - | 10.2 | 34.3 | 4.8 | 14.7 |
| UNKNOWN COLONIES | 6.3 A | - | - | 14.4 A | 19.6 A |
| UNKNOWN FLAGELLATES | 94.5 | 15.3 | 19.6 | 14.4 | 9.8 |
| TOTAL | 5468.4 | 4753.2 | 4365.9 | 3739.2 | 3841.6 |

CENTER STATION PHYTOPLANKTON 9/15/76
CELLS/ML

| NAME | SURF | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|---|
| STEPHANODISCUS NIAGARAE | 49.6 | 71.3 | 66.0 | 96.0 | 59.0 |
| RHIZOSOLENIA | - | - | 6.0 | - | - |
| ASTERIONELLA FORMOSA | 62.0 | - | - | - | 23.6 |
| CYMBELLA | - | - | - | - | 5.9 |
| FRAGILARIA CROTONENSIS | 62.0 | 108.5 | 180.0 | 174.0 | - |
| NAVICULA | 3.1 | - | - | - | - |
| NITZSCHIA | - | - | - | 6.0 | - |
| SYNEDRA | 15.5 | - | - | - | - |
| DIATOMA | - | 3.1 | - | - | - |
| ANABAENA CIRCINALIS | 4247.0 | 3927.7 | 1812.0 | 4152.0 | 2554.7 |
| OSCILLATORIA | - | - | - | - | 5.9 |
| GLOEOCYSTIS | - | 6.2 | - | - | - |
| OOCYSTIS | - | 3.1 | - | - | - |
| OOCYSTIS PARVA | 9.3 A | - | 12.0 A | 6.0 A | - |
| OOCYSTIS SOLITAIRE | - | - | - | 6.0 | - |
| SCHROEDERIA | 127.1 | 136.4 | 132.0 | 138.0 | 177.0 |
| SPHAEROCYSTIS SCHROETERI | 21.7 A | 6.2 A | - | 6.0 A | - |
| STAURASTRUM | - | 9.3 | 6.0 | - | 5.9 |
| CHLAMYDOMONAS | 46.5 | 80.6 | 24.0 | 60.0 | 76.7 |
| EUDORINA ELEGANS | 3.1 A | - | - | - | - |
| PANDORINA | 3.1 A | - | - | - | - |
| CERATIUM HIRUNDINELLA | - | 3.1 | - | - | - |
| CHROMULINA | 2920.2 D | 3716.9 D | 3558.0 D | 4218.0 D | 4000.2 D |
| CRYPTOMONAS | 117.8 | 164.3 | 96.0 | 144.0 | 159.3 |
| CRYPTOMONAS CAUDATA | 68.2 | 27.9 | 18.0 | 24.0 | 53.1 |
| MALLOMONAS | 3.1 | - | - | - | - |
| NEPHROSELMIS | 27.9 | 34.1 | 78.0 | 54.0 | 153.4 |
| RHODOMONAS | 62.0 | 46.5 | 12.0 | - | 11.8 |
| OCHROMONAS | 37.2 | 52.7 | 60.0 | 108.0 | 94.4 |
| UNKNOWN OTHERS | 65.1 | 158.1 | 48.0 | 54.0 | 70.8 |
| UNKNOWN FLAGELLATES | - | 3.1 | - | - | 5.9 |
| TOTAL | 7951.5 | 8559.1 | 6108.0 | 9246.0 | 7457.6 |

CENTER STATION PHYTOPLANKTON 10/14/76
CELLS/ML

| NAME | SURF | 5 M | 10 M | 13 M |
|---|---|---|---|---|
| STEPHANODISCUS NIAGARAE | 76.4 | 92.9 | 74.1 | 78.2 |
| AMPHORA | .5 | - | - | - |
| CYMBELLA | - | - | .5 | - |
| FRAGILARIA CROTONENSIS | 46.9 | - | 35.0 | 28.5 |
| NAVICULA | .5 | - | - | .9 |
| SYNEDRA | - | - | 2.3 | 1.4 |
| DIATOMA | - | .9 | - | - |
| UNKNOWN FUNGUS A6 | 34.5 | - | - | - |
| ANABAENA CIRCINALIS | 1855.2 | 5489.6 | 3684.1 | 4566.9 |
| OSCILLATORIA | - | - | .9 | 1.4 |
| SCHIZOTHRIX | 4.6 | 1.8 | 8.3 D | 8.3 D |
| ANKISTRODESMUS FALCATUS | - | - | - | .5 |
| CHLORELLA | - | 2.8 | - | - |
| COELASTRUM MICROPORUM | - | .9 A | .9 A | .9 |
| COSMARIUM OVALE | - | .9 | - | .5 |
| DICTYOSPHAERIUM | - | - | 2.3 | .9 |
| ELAKATOTHRIX GELATINOSA | - | - | - | .5 A |
| GLOEOCYSTIS GIGAS | .5 | 1.8 | - | - |
| GLOEOCYSTIS AMPLA | - | - | 2.8 A | .5 A |
| OOCYSTIS | .5 A | - | - | - |
| OOCYSTIS PARVA | - | 11.0 | 9.2 | 3.7 |
| OOCYSTIS SOLITAIRE | 3.2 | 4.6 | 2.3 | 3.7 |
| SCHENEDESMUS BIJUGA | - | - | 3.7 | - |
| SCHROEDERIA | 11.5 | 16.6 | 6.9 | 27.6 |
| SPHAEROCYSTIS SCHROETERI | 1.4 A | 3.7 A | .5 A | 5.1 A |
| STAURASTRUM | 1.4 | 2.8 | 1.8 | 2.3 |
| TETRAEDRON | .9 | - | - | - |
| PLANKTOSPHAERIA | .9 A | - | - | - |
| NEPHROCYTIUM | .5 A | - | 1.8 | .5 A |
| CHLAMYDOMONAS | 187.7 | 486.7 | 202.4 | 397.0 |
| EUDORINA ELEGANS | .5 A | - | 1.4 A | .5 A |
| HETEROMASTIX | - | 11.0 | 1.8 | 8.7 |
| PANDORINA | .5 A | - | - | - |
| TRACHELOMONAS | - | - | .5 | - |
| CERATIUM HIRUNDINELLA | .5 | .9 | .9 | - |
| CHROMULINA | - | 205.2 D | 48.3 D | 473.8 D |
| CRYPTOMONAS | 79.6 | - | - | - |
| CRYPTOMONAS CAUDATA | - | 4.6 | 9.2 | 11.0 |
| CRYPTOMONAS MARSSONII | - | .9 | .5 | - |
| CRYPTOMONAS ROSTRATIFORMIS | - | 224.5 | 132.9 | 116.8 |
| MALLOMONAS | .9 | - | - | .5 |
| RHODOMONAS | - | 3.7 | 1.8 | 4.1 |
| SYNURA | - | 15.6 | - | 2.8 |
| OCHROMONAS | - | 8.3 | .9 | 8.7 |
| UNKNOWN OTHERS | 10.1 | 5.5 | .5 | 6.9 |
| UNKNOWN FLAGELLATES | 120.5 | 7.4 | 3.2 | 23.9 |
| TOTAL | 2439.4 | 6604.7 | 7098.7 | 5786.8 |

CENTER STATION PHYTOPLANKTON 4/28/77
CELLS/ML

| NAME | SURF | SURF | 5 M | 10 M | 10 M | 13 M |
|---|---|---|---|---|---|---|
| STEPHANODISCUS ASTREA | 8028.0 | 6984.0 | 7911.8 | 10543.1 | 10006.1 | 9397.5 |
| STEPHANODISCUS NIAGARAE | - | - | 17.9 | - | - | - |
| ASTERIONELLA FORMOSA | 12510.0 | 11376.0 | 8413.0 | 5405.8 | 6390.3 | 11688.7 |
| NAVICULA | - | - | - | - | 35.8 | - |
| NITZSCHIA | 234.0 | 162.0 | 161.1 | 268.5 | 161.1 | 89.5 |
| RHOICOSPHENIA CURVATA | - | - | 17.9 | - | - | - |
| OSCILLATORIA | 18.0 | - | 17.9 | 17.9 | - | 17.9 |
| ANKISTRODESMUS | 90.0 | 36.0 | 125.3 | 35.8 | 17.9 | 53.7 |
| COLACIUM | - | - | 71.6 | 17.9 | - | 35.8 |
| COSMARIUM | - | - | 53.7 | - | - | - |
| DICTYOSPHAERIUM | - | - | - | - | 107.4 | 250.6 |
| SCHROEDERIA SETIGERA | 198.0 | 342.0 | 286.4 | 196.9 | 465.4 | 340.1 |
| BOTRYOCOCCUS | 18.0 | 18.0 | 17.9 | - | 17.9 | - |
| UNKNOWN GREEN COCCOID | 198.0 | 180.0 | 71.6 | - | 250.6 | - |
| UNKNOWN COLONY | - | - | 17.9 | - | - | - |
| CHLAMYDOMONAS | 234.0 | 144.0 | 71.6 | 250.6 | 250.6 | 89.5 |
| CHLOROGONIUM | - | - | - | - | - | 17.9 |
| CHROMULINA | 17550.0 D | 13770.0 D | 15268.7 D | 17738.9 D | 19725.8 D | 16521.7 D |
| CRYPTOMONAS | 144.0 | 144.0 | 71.6 | 161.1 | 161.1 | 89.5 |
| CRYPTOMONAS OVATA | 234.0 | 126.0 | 71.6 | 161.1 | 107.4 | 196.9 |
| CRYPTOMONAS CAUDATA | 72.0 | 126.0 | 179.0 | 232.7 | 107.4 | 35.8 |
| CRYPTOMONAS ROSTRATIFORMIS | 72.0 | 36.0 | 35.8 | 53.7 | 53.7 | 89.5 |
| DINOBRYON | 180.0 C | 108.0 C | 322.2 C | 214.8 C | 125.3 C | 89.5 C |
| DINOBRYON SERTULARIA | 396.0 | 288.0 | 554.9 | 554.9 | 232.7 | 912.9 |
| NEPHROSELMIS | 72.0 | 54.0 | 250.6 | 53.7 | 179.0 | - |
| OCHROMONAS | 90.0 | 18.0 | 53.7 | 107.4 | 35.8 | - |
| CHRYSOSPHAERELLA | 18.0 | - | - | - | - | - |
| KEPHRYION | 18.0 | - | 17.9 | 17.9 | - | - |
| UNKNOWN OTHERS | 918.0 | 720.0 | 501.2 | 984.5 | - | 1485.7 |
| UNKNOWN COLONIES | - | - | - | 35.8 | 1449.9 | 17.9 E |
| TOTAL | 41292.0 | 34632.0 | 34582.8 | 37053.0 | 39881.2 | 41420.6 |

CENTER STATION PHYTOPLANKTON 6/ 2/77
CELLS/ML

| NAME | SURF | SURF | 5 M | 10 M | 13 M | 13 M |
|---|---|---|---|---|---|---|
| STEPHANODISCUS ASTREA | .9 | 1.8 | - | - | - | 1.8 |
| STEPHANODISCUS NIAGARAE | - | .9 | .9 | - | - | - |
| ASTERIONELLA FORMOSA | 256.7 | 265.0 | 212.9 | 92.0 | 61.0 | 208.8 |
| FRAGILARIA CROTONENSIS | - | - | - | - | 1.8 | - |
| NAVICULA | - | - | - | - | .9 | - |
| NITZSCHIA | - | - | - | - | .9 | - |
| SYNEDRA | - | - | - | - | - | .9 |
| ANABAENA CIRCINALIS | - | - | - | 12.9 | - | - |
| OSCILLATORIA | - | - | - | - | - | .9 |
| CHLORELLA | 8.3 | 4.6 | 3.6 | 4.1 | 12.7 | 6.4 |
| COELASTRUM | 2.8 A | - | - | - | - | - |
| COSMARIUM | 2.8 | 2.8 | - | 1.8 | 2.7 | 2.8 |
| DICTYOSPHAERIUM PULCHELLUM | .9 | 3.7 A | 20.9 | - | - | - |
| GLOEOCYSTIS GIGAS | - | 2.8 | 9.1 | 2.3 | .9 | 1.8 |
| OOCYSTIS | .9 | - | - | - | - | - |
| SCHROEDERIA SETIGERA | 39.6 | 48.8 | 38.2 | 12.9 | 24.6 | 35.0 |
| SPHAEROCYSTIS SCHROETERI | - | .9 A | 34.6 | 14.7 | 3.6 A | 7.4 A |
| QUADRIGULA | - | - | 1.8 | - | - | - |
| WESTELLA BOTRYOIDES | - | 25.8 | 140.1 | 72.2 | - | - |
| UNKNOWN GREEN COCCOID | - | - | - | - | 3.6 | - |
| CHLAMYDOMONAS | 1.8 | 7.4 | 4.6 | 4.1 | 2.7 | 2.8 |
| EUDORINA ELEGANS | - | - | - | - | - | .9 A |
| PANDORINA MORUM | - | .9 A | - | .5 A | .9 A | .9 A |
| CHROMULINA | 1794.0 D | 1344.1 D | 1397.8 D | 763.1 D | 961.0 | 1553.0 D |
| CRYPTOMONAS | 16.6 | 13.8 | 6.4 | .5 | .9 | .9 |
| CRYPTOMONAS OVATA | 7.4 | 12.0 | 10.0 | 4.1 | - | 2.8 |
| CRYPTOMONAS CAUDATA | - | - | - | 1.8 | - | - |
| CRYPTOMONAS MARSSONII | - | 2.8 | .9 | 5.5 | - | - |
| CRYPTOMONAS ROSTRATIFORMIS | 3.7 | 2.8 | 9.1 | 6.9 | 8.2 | 15.6 |
| DINORRYON | - | - | - | .9 C | - | - |
| MALLOMONAS | - | - | - | - | - | .9 |
| NEPHROSELMIS | 217.1 D | 401.1 D | 190.2 D | 141.7 D | 246.6 D | 341.3 D |
| OCHROMONAS | 16.6 | 13.8 | 8.2 | 5.1 | 5.5 D | 4.6 |
| UNKNOWN OTHERS | 3.7 | - | 4.6 | .5 | 1.8 | - |
| UNKNOWN FLAGELLATES | - | 1.8 | - | - | - | - |
| TOTAL | 2373.6 | 2157.4 | 2093.9 | 1147.7 | 1340.4 | 2189.6 |

CENTER STATION PHYTOPLANKTON 6/29/77
CELLS/ML

| NAME | SURF | 5 M | 10 M | 10 M | 13 M | 13 M |
|---|---|---|---|---|---|---|
| MELOSIRA GRANULATA VAR. ANGUSTISSIMA | .5 | 4.1 | 6.4 B | 1.4 | 1.8 B | 1.4 |
| ASTERIONELLA FORMOSA | 27.1 | 32.2 | 70.4 | 76.4 | 38.6 | 46.0 |
| FRAGILARIA CROTONENSIS | - | - | - | - | - | .5 |
| NAVICULA | - | - | - | - | - | .5 |
| NITZSCHIA | .5 | .9 | - | - | - | - |
| SYNEDRA | - | - | - | - | .5 | - |
| SYNEDRA ACTINASTRIODES | 31.3 | 15.6 | - | 10.6 | - | - |
| UNKNOWN PENNATE | - | - | - | .9 | - | - |
| ANABAENA CIRCINALIS | 61.6 | 64.9 | 1.4 | - | 1.4 | 8.3 |
| GLOEOTRICHIA | .5 A | - | - | - | - | - |
| ANKISTRODESMUS | - | - | - | - | - | .5 |
| COELASTRUM MICROPORUM | - | - | 1.4 A | .9 A | - | - |
| COSMARIUM | .5 | 3.7 | 4.1 | 2.3 | 1.8 | 1.8 |
| DICTYOSPHAERIUM PULCHELLUM | - | - | 2.8 | - | .5 A | - |
| ELAKATOTHRIX | - | - | 3.7 | - | .5 | - |
| GLOEOCYSTIS GIGAS | - | - | 3.2 | 1.4 | 1.4 | - |
| OOCYSTIS | 4.6 | 30.4 | 4.6 | 2.8 | 1.4 | 2.3 |
| SCHROEDERIA SETIGERA | 20.7 | 19.8 | 2.3 | 5.1 | 2.8 | 1.4 |
| SPHAEROCYSTIS SCHROETERI | 5.1 A | - | 1.4 A | 4.1 A | 5.1 A | 1.4 A |
| SPHAEROCYSTIS SCHROETERI (6) | - | - | 4.1 E | - | - | - |
| STAURASTRUM PARADOXUM | - | - | - | - | .5 | .5 |
| QUADRIGULA LACUSTRIS | 20.2 | 5.5 | 15.6 | 8.7 | 11.0 | 5.1 |
| PLANKTOSPHAERIA | - | - | .5 A | - | - | - |
| BOTRYOCOCCUS | - | - | - | - | .5 A | - |
| CHLAMYDOMONAS | 3.7 | .5 | - | - | - | - |
| EUDORINA ELEGANS | - | - | .9 A | .5 A | 1.4 A | - |
| HETEROMASTIX | 4.1 | 1.4 | - | - | - | - |
| PANDORINA | - | - | - | - | - | .5 A |
| GONIUM | - | - | .5 A | - | - | - |
| UNKNOWN GREEN FLAGELLATE | 19.8 D | 37.3 D | - | - | - | - |
| UNKNOWN COLONY | - | - | - | - | .5 A | - |
| CHROMULINA | 849.2 | 1127.0 | 285.2 | 509.7 | 143.1 | 124.7 |
| CRYPTOMONAS | 1.8 | 5.5 | 23.9 | 30.4 | 7.4 | 7.4 |
| CRYPTOMONAS OVATA | .5 | 2.3 | - | - | - | - |
| CRYPTOMONAS MARSSONII | - | - | .9 | - | - | - |
| HEMIDINIUM | .5 | - | - | - | - | - |
| NEPHROSELMIS | 74.5 | 57.5 | .5 | - | .5 | - |
| RHODOMONAS | .9 | - | - | - | - | - |
| SYNURA | - | - | - | .9 A | 2.8 A | - |
| OCHROMONAS | .9 | .5 | - | - | - | - |
| UNKNOWN OTHERS | .5 | .5 D | 3.2 A | .5 | 2.3 | 1.8 |
| TOTAL | 1128.8 | 1409.4 | 437.0 | 656.4 | 225.4 | 203.8 |

CENTER STATION PHYTOPLANKTON 7/20/77
CELLS/ML

| NAME | SURF | SURF | 5 M | 5 M | 10 M | 13 M |
|---|---|---|---|---|---|---|
| MELOSIRA GRANULATA VAR. ANGUSTISSIMA | 117.8 B | 182.9 B | 238.5 B | 162.0 B | 365.8 B | 264.0 B |
| SYNEDRA | - | - | - | - | - | 3.3 |
| ANABAENA CIRCINALIS | 3118.6 | 4594.2 | 1323.0 | 2268.0 | - | - |
| COSMARIUM | - | 3.1 | - | - | - | - |
| OOCYSTIS | 3.1 | 86.8 | 180.0 | 36.0 | 282.1 | 138.6 |
| SCHROEDERIA B | - | - | 27.0 | - | - | - |
| SCHROEDERIA SETIGERA | 24.8 | 37.2 | - | 22.5 | 77.5 | 52.8 |
| SPHAEROCYSTIS SCHROETERI | - | - | - | - | - | 3.3 A |
| STAURASTRUM PARADOXUM | - | - | 4.5 | - | - | - |
| TETRAEDRON | - | 3.1 | - | - | - | 3.3 |
| UNKNOWN GREEN COCCOID | - | - | 9.0 | - | - | - |
| CHLAMYDOMONAS | 34.1 | 68.2 | 81.0 | 9.0 | 9.3 | - |
| TRACHELOMONAS | - | 6.2 | - | - | 3.1 | - |
| CHROMULINA | 3171.3 | 3602.2 | 4320.0 | 4432.5 | 1274.1 | 425.7 |
| CRYPTOMONAS | 151.9 | 142.6 | 162.0 | 81.0 | 9.3 | - |
| CRYPTOMONAS OVATA | 18.6 | 15.5 | 36.0 | 58.5 | 3.1 | 3.3 |
| CRYPTOMONAS MARSSONII | 18.6 | 3.1 | 4.5 | 9.0 | - | - |
| CRYPTOMONAS ROSTRATIFORMIS | - | - | - | - | 21.7 | - |
| NEPHROSELMIS | 213.9 | 275.9 | 310.5 | 171.0 | 46.5 | 3.3 |
| UNKNOWN OTHERS | 83.7 | 83.7 | 139.5 | 94.5 | 207.7 | 151.8 |
| UNKNOWN COLONIES | - | - | - | - | - | 3.3 A |
| UNKNOWN FLAGELLATES | - | - | - | 13.5 | - | 19.8 |
| TOTAL | 6956.4 | 9104.7 | 6835.5 | 7357.5 | 2300.2 | 1072.5 |

CENTER STATION PHYTOPLANKTON 8/18/77
CELLS/ML

| NAME | SURF | SURF | 5 M | 5 M | 10 M | 13 M |
|---|---|---|---|---|---|---|
| STEPHANODISCUS NIAGARAE | 4.7 | - | - | - | - | - |
| ACHNANTHES | 4.7 | - | - | 13.5 | - | - |
| NAVICULA | - | 4.7 | - | - | - | - |
| ANABAENA CIRCINALIS | 30225.7 | 26536.2 | 6070.5 | 5062.5 | 24.8 | - |
| OSCILLATORIA | - | 4.7 | 13.5 | - | 3.1 | - |
| GLOEOTRICHIA | 564.0 | 639.2 | 157.5 | 621.0 | - | 49.5 |
| GLOEOTRICHIA ECHINULATA | - | - | 9.0 A | - | 6.2 A | 6.6 A |
| ANKISTRODESMUS FALCATUS | - | - | - | 9.0 | - | - |
| COELASTRUM | - | - | - | 4.5 | - | - |
| GLOEOCYSTIS | 18.8 | - | - | - | 24.8 | - |
| OOCYSTIS | 79.9 | - | 9.0 | - | 58.9 | - |
| OOCYSTIS ELLIPTICA | - | 413.6 | - | - | - | - |
| SCHROEDERIA B | 89.3 | 51.7 | 63.0 | 99.0 | 24.8 | 3.3 |
| SPHAEROCYSTIS SCHROETERI | 4.7 A | 32.9 E | 94.5 A | 13.5 A | 43.4 A | 13.2 A |
| SPHAEROCYSTIS SCHROETERI (6) | - | - | 103.5 E | 99.0 E | - | - |
| STAURASTRUM | - | - | 4.5 | - | - | - |
| STAURASTRUM PARADOXUM | - | 4.7 | - | - | - | - |
| TETRAEDRON | - | - | - | - | 3.1 | - |
| UNKNOWN GREEN COCCOID | 14.1 | - | - | - | 3.1 | - |
| CHLAMYDOMONAS | 2209.0 | - | 580.5 | 481.5 | 12.4 | 3.3 |
| CHLAMYDOMONAS GLOBOSA | - | 2622.6 | - | - | - | - |
| EUDORINA | 9.4 A | - | - | - | - | - |
| EUGLENA | - | - | - | - | - | 42.9 |
| HETEROMASTIX | 65.8 | - | 153.0 | 166.5 | - | - |
| TRACHELOMONAS | - | 4.7 | - | - | - | - |
| CHROMULINA | 1123.3 | 893.0 | 1521.0 | 1575.0 | 204.6 | - |
| CRYPTOMONAS | - | - | 139.5 | 85.5 | 71.3 | - |
| CRYPTOMONAS OVATA | 47.0 | 42.3 | 157.5 | 162.0 | 133.3 | 419.1 |
| NEPHROSELMIS | - | - | 9.0 | - | - | - |
| OCHROMONAS | 4.7 | 136.3 D | 13.5 D | 31.5 D | 9.3 D | - |
| STIPITOCOCCUS | - | - | - | - | 18.6 D | - |
| PERIDINIUM | - | - | - | - | - | 3.3 |
| UNKNOWN OTHERS | 47.0 | 28.2 | 76.5 | 49.5 | 117.8 D | - |
| UNKNOWN COLONIES | - | - | - | - | 3.1 | - |
| UNKNOWN FLAGELLATES | 79.9 | 4.7 | 112.5 | 72.0 | 117.8 | 85.8 |
| UNKNOWN UNKNOWN | - | - | - | - | 12.4 E | 1188.0 E |
| TOTAL | 34592.0 | 31419.5 | 9288.0 | 8545.5 | 892.8 | 1815.0 |

CENTER STATION PHYTOPLANKTON 9/28/77
CELLS/ML

| NAME | SURF | SURF | 5 M | 10 M | 10 M | 13 M |
|---|---|---|---|---|---|---|
| STEPHANODISCUS NIAGARAE | 171.1 | 138.0 | 30.0 | 240.0 | 138.6 | 120.0 |
| NAVICULA | - | 6.0 | - | 12.0 | - | - |
| NITZSCHIA | - | - | - | - | 6.3 | - |
| DIATOMA | - | - | - | - | 12.6 | - |
| UNKNOWN PENNATE | - | - | - | 6.0 | - | - |
| ANACYSTIS (CHROOCOCCUS) | - | - | 6.0 | - | - | - |
| UNKNOWN BLUE GREEN COCCOID | - | - | - | 132.0 | 88.2 | - |
| ANABAENA CIRCINALIS | 2708.1 | 6798.0 | 1710.0 | 2238.0 | 1045.8 | 312.0 |
| PSEUDOANABAENA | - | - | - | - | 56.7 | - |
| GLOEOCYSTIS | - | - | - | - | 113.4 | - |
| OOCYSTIS | - | - | - | - | - | 54.0 |
| OOCYSTIS ELLIPTICA | - | 18.0 | 6.0 | - | 44.1 | - |
| SCHROEDERIA SETIGERA | 17.7 | 12.0 | 264.0 | 24.0 | 31.5 | 24.0 |
| SPHAEROCYSTIS SCHROETERI | 354.0 A | 78.0 | 108.0 | 210.0 | 245.7 | 30.0 A |
| SPHAEROCYSTIS SCHROETERI DAUGHTER CE | - | - | 12.0 | 6.0 | - | 120.0 E |
| SPHAEROCYSTIS SCHROETERI (6) | 5.9 E | - | - | - | - | - |
| STAURASTRUM PARADOXUM | 35.4 | 30.0 | 24.0 | 102.0 | 25.2 | 6.0 |
| CHARACIUM | - | - | - | - | - | 6.0 |
| CHLAMYDOMONAS | - | - | - | 1080.0 | - | - |
| CHLAMYDOMONAS GLOBOSA | 1829.0 | 1854.0 | 552.0 | - | 982.8 | 378.0 |
| TRACHELOMONAS | - | - | - | 6.0 | - | - |
| CERATIUM HIRUNDINELLA | - | - | 6.0 | - | - | - |
| CHROMULINA | 2955.9 | 3756.0 | 4050.0 | 4764.0 | 5229.0 | 5028.0 D |
| CRYPTOMONAS EROSA | 247.8 | 222.0 | 282.0 | 324.0 | 315.0 | 306.0 |
| CRYPTOMONAS OVATA | - | - | - | - | - | 6.0 |
| GLENODINIUM | - | - | 6.0 | - | - | - |
| NEPHROSELMIS | 35.4 | 78.0 | - | - | 100.8 | - |
| KEPHRYION | - | - | - | - | 6.3 | - |
| UNKNOWN OTHERS | 70.8 | - | - | - | - | - |
| UNKNOWN FLAGELLATES | 5.9 | 168.0 | 12.0 | - | - | - |
| TOTAL | 8437.0 | 13158.0 | 7068.0 | 9144.0 | 8442.0 | 6390.0 |

CENTER STATION PHYTOPLANKTON 10/27/77
CELLS/ML

| NAME | SURF | SURF | 5 M | 5 M | 10 M | 13 M |
|---|---|---|---|---|---|---|
| STEPHANODISCUS NIAGARAE | 94.4 | 72.0 | 72.0 | 75.6 | 106.2 | 66.0 |
| NITZSCHIA | - | - | - | 6.3 | 11.8 | - |
| NITZSCHIA ACTINASTROIDES | - | 18.0 | - | - | - | 204.0 |
| ANACYSTIS .CHROOCOCCUS. | 17.7 D | 90.0 D | 246.0 D | 44.1 D | 289.1 D | 378.0 D |
| ANABAENA CIRCINALIS | 41.3 | - | 54.0 | 50.4 | - | - |
| ANKISTRODESMUS FALCATUS | 5.9 | - | - | 6.3 | 5.9 | - |
| GLOEOCYSTIS | - | - | - | 75.6 | - | - |
| OOCYSTIS ELLIPTICA | - | - | - | 6.3 | 5.9 | - |
| SCHROEDERIA SETIGERA | - | 6.0 | 18.0 | 12.6 | 23.6 | 12.0 |
| SPHAEROCYSTIS SCHROETERI | - | 36.0 | 78.0 | 56.7 | - | 66.0 |
| SPHAEROCYSTIS SCHROETERI (6) | - | - | - | - | 59.0 E | - |
| STAURASTRUM PARADOXUM | 11.8 | 6.0 | 6.0 | 6.3 | - | - |
| UNKNOWN GREEN COCCOID | - | - | - | 6.3 | - | - |
| CHLAMYDOMONAS GLOBOSA | 23.6 | 12.0 | 24.0 | 31.5 | - | 12.0 |
| CHROMULINA | 1469.1 D | 1716.0 D | 1674.0 D | 1417.5 D | 1752.3 D | 1848.0 D |
| CRYPTOMONAS OVATA | 41.3 | 48.0 | 24.0 | 44.1 | 47.2 | 72.0 |
| NEPHROSELMIS | 23.6 | 36.0 | 24.0 | 12.6 | 35.4 | 12.0 |
| CHRYSOSTRELLA | - | - | 6.0 | - | - | - |
| KEPHRYION | - | - | - | - | - | 6.0 |
| TOTAL | 1728.7 | 2040.0 | 2226.0 | 1852.2 | 2336.4 | 2676.0 |

## BENTHOS

Benthic macroinvertebrates collected with a Ponar grab (0.049 $m^2$) and retained on a U.S. Standard No. 30 mesh screen (0.59 mm opening) are presented. Each value represents an average of triplicate samples in 1971 and 1972 except as noted and of four samples in subsequent years.

The taxa shown in each table are exclusive identifications. If values are given for both less detailed and more detailed levels of identification for related organisms (i.e., Oligochaeta and *Limnodrilus hoffmeisteri*), the values for the less detailed level represent only those organisms which could not be further identified and not all the species of that type in the sample.

CENTER BENTHIC MACROINVERTEBRATES 1971
MEAN NUMBERS PER PONAR GRAB (0.049 SQ M)

| TAXA | 06/03/71** | 07/07/71 | 08/03/71 | 09/27/71 |
|---|---|---|---|---|
| TURBELLARIA | ------ | ------- | ------ | ------ |
| OLIGOCHAETA | 180.00 | 326.00 | 246.00 | 230.33 |
| HIRUDINAE | ------ | 0.67 | ------ | ------ |
| GASTROPODA | ------ | ------- | 0.33 | ------ |
| SPHAERIIDAE | 6.00 | 2.67 | 12.33 | 0.34 |
| AMPHIPODA | ------ | ------- | ------ | ------ |
| CHIRONOMIDAE | 522.00 | 6402.00 | 640.00 | 377.00 |
| HYDRACARINA | 1.00 | ------- | ------ | ------ |
| TOTAL | 709.00 | 6731.34 | 898.66 | 607.67 |

** TWO SAMPLES

RESORT BENTHIC MACROINVERTEBRATES 1971
MEAN NUMBERS PER PONAR GRAB (0.049 SQ M)

| TAXA | 06/03/71* | 08/03/71 |
|---|---|---|
| TURBELLARI | 1.00 | ------ |
| OLIGOCHAETA | 2.00 | 16.00 |
| HIRUDINAE | 3.00 | 22.00 |
| GASTROPODA | 1.00 | 25.67 |
| SPHAERIIDAE | ------ | 28.33 |
| AMPHIPODA | 2.00 | 0.33 |
| CHIRONOMIDAE | 585.00 | 335.33 |
| HYDRACARINA | ------ | ------ |
| TOTAL | 594.00 | 427.66 |

* ONE SAMPLE

EAST SIDE CAMPGROUND BENTHIC MACROINVERTEBRATES 1971
MEAN NUMBERS PER PONAR GRAB (0.049 SQ M)

| TAXA | 06/03/71 | 08/03/71** |
|---|---|---|
| TURBELLARIA | 2.33 | 2.50 |
| OLIGOCHAETA | 67.66 | 20.50 |
| HIRUDINAE | 33.33 | 5.50 |
| GASTROPODA | 39.00 | 8.50 |
| SPHAERIIDAE | ------ | 2.50 |
| AMPHIPODA | 16.67 | 8.0 |
| CHIRONOMIDAE | 68.67 | 132.00 |
| HYDRACARINA | ------ | ------ |
| TOTAL | 227.66 | 179.50 |

** TWO SAMPLES

THIELSON VIEW CAMPGROUND BENTHIC MACROINVERTEBRATES 1971
MEAN NUMBERS PER PONAR GRAB (0.049 SQ M)

| TAXA | 06/03/71 | 08/03/71 | 08/30/71 |
|---|---|---|---|
| TURBELLARIA | ------ | ------ | ------- |
| OLIGOCHAETA | 3.67 | 50.33 | 4.67 |
| HIRUDINAE | 5.00 | 6.67 | 9.33 |
| GASTROPODA | 4.33 | 2.33 | 22.33 |
| SPHAERIIDAE | 10.00 | 15.00 | 5.00 |
| AMPHIPODA | 0.33 | ------ | 6.33 |
| CHIRONOMIDAE | 190.67 | 40.00 | 1190.00 |
| HYDRACARINA | ------ | ------ | 0.33 |
| TOTAL | 214.00 | 114.33 | 1237.99 |

CENTER BENTHIC MACROINVERTEBRATES 1972
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 02/02/72 | 05/25/72 | 06/27/72 | 07/24/72 | 08/22/72 | 09/26/72 |
|---|---|---|---|---|---|---|
| ABLABESMYIA MONILIS | - | - | 2.33 | - | - | - |
| CHIRONOMUS DECORUS | 191.67 | 365.67 | 257.67 | 69.00 | 169.67 | 83.00 |
| CRYPTOTENDIPES AMACHERUS | - | - | .33 | - | - | - |
| DICROTENDIPES CALIFORNICUS | .33 | - | .67 | - | .33 | - |
| PROCLADIUS CULCIFORMIS | - | - | .33 | 1.00 | - | .67 |
| TANYTARSUS | 1.00 | - | - | - | - | 1.00 |
| OLIGOCHAETA | 98.33 | 193.33 | 214.67 | 140.67 | 319.33 | 408.67 |
| HELOBDELLA STAGNALIS | - | .33 | - | - | .33 | - |
| HYALLELA AZTECA | - | - | - | - | .33 | .67 |
| PISIDIUM | 1.67 | 1.00 | 2.33 | 2.00 | .67 | 1.00 |
| NEMATODA | - | - | - | - | - | .67 |
| TOTAL | 293.00 | 560.33 | 478.33 | 212.67 | 490.67 | 495.67 |

RESORT BENTHIC MACROINVERTEBRATES 1972
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/25/72 | 06/27/72 | 07/24/72 | 08/22/72 | 09/26/72 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | .67 | 1.00 | 5.00 | - | .50 |
| ABLABESMYIA MONILIS | - | - | - | .67 | - |
| CHIRONOMUS DECORUS | .33 | - | 28.33 | 1.67 | 1.00 |
| CLADOTANYTARSUS | - | 26.00 | 7.33 | - | - |
| DICROTENDIPES CALIFORNICUS | - | - | 3.00 | 8.33 | 3.50 |
| GLYPTOTENDIPES | - | 5.00 | - | - | 4.00 |
| PAGASTIELLA ORPHILA | 7.67 | 67.00 | - | 27.00 | 16.50 |
| PROCLADIUS CULCIFORMIS | 2.33 | - | 12.67 | 44.00 | 60.00 |
| TANYTARSUS | .33 | - | 20.33 | 792.67 | 2393.50 |
| OLIGOCHAETA | 9.00 | 41.00 | 24.67 | 79.00 | 24.50 |
| ERPODELLIDAE | - | 1.00 | - | - | - |
| GLOSSIPHONIDAE | .33 | - | - | - | - |
| GLOSSIPHONIA | 1.00 | - | - | - | - |
| GLOSSIPHONIA COMPLANATA | 2.67 | - | - | - | - |
| HELOBDELLA STAGNALIS | 74.67 | 58.00 | 47.33 | 53.00 | 82.50 |
| ORANGONYX RICHMONDENSIS OCCIDENTALIS | .33 | - | - | - | - |
| MYALLELA AZTECA | 12.33 | 27.00 | - | 233.67 | 96.50 |
| MENETUS OPERCULARIS | - | 4.00 | 2.00 | 3.00 | 8.00 |
| VALVATA HUMERALIS | 1.33 | 19.00 | 13.67 | 9.00 | 9.50 |
| PISIDIUM | 3.00 | 17.00 | 14.33 | 17.00 | 21.50 |
| NAETIDAE | - | - | - | .33 | - |
| ACARI | - | - | - | .33 | - |
| NEMATODA | - | 2.00 | 1.00 | 1.00 | 3.50 |
| TURBELLARIA | 8.67 | - | 10.00 | 4.67 | 23.00 |
| TOTAL | 124.67 | 268.00 | 189.67 | 1275.33 | 2748.00 |

WEST SIDE SUMMER HOMES BENTHIC MACROINVERTEBRATES 1972
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/25/72 | 06/27/72 | 07/24/72 | 08/22/72 | 09/26/72 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | 1052.00 | .67 | 3.33 | .67 | - |
| ABLABESMYIA MONILIS | .33 | - | 4.67 | .67 | - |
| CHIRONOMUS DECORUS | 21.00 | 14.67 | 5.33 | 1.33 | - |
| CRICOTOPUS | - | - | - | .33 | - |
| CRYPTOTENDIPES AMACHERUS | - | 3.00 | - | 2.67 | - |
| DICROTENDIPES CALIFORNICUS | .33 | - | 8.67 | 8.67 | 25.33 |
| GLYPTOTENDIPES | 4.00 | - | 13.33 | - | - |
| PAGASTIELLA CROPHILA | .33 | .67 | 17.67 | 4.00 | 1.33 |
| PARACHIRONOMUS ABORTIVUS | - | .33 | 7.00 | .67 | - |
| PROCLADIUS CULCIFORMIS | 95.67 | 12.00 | 28.00 | 9.67 | 28.00 |
| PSECTROCLADIUS | - | .67 | .33 | 1.67 | - |
| TANYTARSUS | 696.67 | 9.67 | 960.67 | 134.00 | 265.33 |
| OLIGOCHAETA | 6.33 | 13.67 | 7.67 | 85.67 | 15.67 |
| STYLARIA LACUSTRIS | - | - | 8.67 | 67.67 | 178.67 |
| HELOBDELLA STAGNALIS | 19.67 | 50.33 | 104.33 | 288.33 | 22.67 |
| HYALLELA AZTECA | 19.67 | .33 | 2.67 | 45.33 | 92.67 |
| PHYSA | - | - | - | 1.67 | - |
| MENETUS OPERCULARIS | 4.67 | 1.67 | - | .67 | 2.67 |
| VALVATA HUMERALIS | 2.00 | 2.67 | 2.33 | 3.00 | 4.00 |
| PISIDIUM | .67 | - | - | - | - |
| BASTIDAE | - | - | - | - | 2.67 |
| CAENIS | 1.67 | .33 | - | - | - |
| OECETIS | - | .67 | - | - | - |
| ACARI | - | .67 | - | 3.00 | 1.33 |
| TURBELLARIA | - | .33 | - | - | - |
| TOTAL | 1925.00 | 112.33 | 1174.67 | 659.67 | 633.33 |

EAST SIDE CAMPGROUNDS BENTHIC MACROINVERTEBRATES 1972
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/25/72 | 06/27/72 | 07/24/72 | 08/22/72 | 09/26/72 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | 491.00 | 1.33 | 1.00 | - | - |
| ABLABESMYIA MONILIS | .33 | - | .33 | - | - |
| CHIRONOMUS DECORUS | 1.33 | 11.33 | 16.00 | - | - |
| CRYPTOTENDIPES AMACHERUS | - | 1.33 | .67 | - | - |
| DICROTENDIPES CALIFORNICUS | 1.00 | 1.00 | 17.33 | 1.33 | 17.33 |
| GLYPTOTENDIPES | .33 | - | - | 1.33 | - |
| PAGASTIELLA OROPHILA | - | 9.00 | 55.67 | 16.00 | 9.33 |
| PARACHIRONOMUS ABORTIVUS | - | 6.00 | .33 | - | - |
| PROCLADIUS CULICIFORMIS | 33.67 | 16.33 | 28.00 | 1.33 | - |
| TANYTARSUS | 178.33 | 2.33 | 3639.00 | 4962.67 | 545.33 |
| OLIGOCHAETA | 79.67 | 26.67 | 42.33 | 44.00 | 40.00 |
| STYLARIA LACUSTRIS | - | .33 | - | 9.33 | 36.00 |
| ERPODELLIDAE | 1.67 | .33 | - | - | - |
| HELOBDELLA STAGNALIS | 70.67 | 39.33 | 235.67 | 224.00 | 362.67 |
| HYALLELA AZTECA | 4.00 | 3.33 | 65.33 | 160.00 | 94.67 |
| PHYSA | 1.00 | - | - | 4.00 | 4.00 |
| MENETUS OPERCULARIS | 15.33 | - | 8.00 | 4.33 | 1.33 |
| VALVATA HUMERALIS | 3.33 | 1.33 | 15.33 | 16.00 | 12.00 |
| PISIDIUM | - | 3.67 | 1.00 | 1.33 | 1.33 |
| PAETIDAE | - | - | - | - | 1.33 |
| ISHNURA | - | - | - | 1.33 | - |
| ACARI | 1.67 | .67 | - | 1.33 | - |
| NEMATODA | - | - | .33 | 1.33 | - |
| TURBELLARIA | 3.33 | 1.33 | 1.00 | 1.33 | 1.33 |
| TOTAL | 886.67 | 125.67 | 4127.33 | 5451.00 | 1126.67 |

THIELSON VIEW CAMPGROUNDS BENTHIC MACROINVERTEBRATES 1972
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/25/72 | 06/27/72 | 07/24/72 | 08/22/72 | 09/26/72 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | 435.33 | 2.33 | 10.33 | 5.33 | 2.67 |
| ABLABESMYIA MONILIS | - | - | 1.67 | 1.67 | - |
| CHIRONOMUS DECORUS | 5.33 | 63.00 | 21.33 | 75.00 | 39.00 |
| CLADOTANYTARSUS | - | - | 3.00 | - | - |
| CRYPTOTENDIPES AMACHERUS | - | - | 2.67 | - | - |
| DICROTENDIPES CALIFORNICUS | - | 86.67 | .33 | 1.33 | .33 |
| GLYPTOTENDIPES | 35.00 | 4.67 | 4.00 | 1.33 | 2.33 |
| PAGASTIELLA OROPHILA | 205.33 | 81.67 | 3.00 | 16.00 | 30.00 |
| PARACHIRONOMUS ABORTIVUS | - | - | - | 2.00 | - |
| PROCLADIUS CULICIFORMIS | 95.00 | - | 50.00 | 80.67 | 99.33 |
| TANYTARSUS | 330.67 | .33 | 66.33 | 302.00 | 1414.67 |
| OLIGOCHAETA | 6.67 | 16.00 | 22.67 | 11.33 | 14.67 |
| GLOSSIPHONIDAE | - | - | - | - | 2.00 |
| GLOSSIPHONIA | .67 | - | - | .67 | - |
| HELOBDELLA STAGNALIS | 11.00 | 4.00 | 15.00 | 6.33 | 26.67 |
| HYALLELA AZTECA | 54.33 | 42.67 | 26.33 | 97.67 | 84.67 |
| MENETUS OPERCULARIS | 2.67 | 2.33 | 1.67 | 1.67 | 9.00 |
| VALVATA HUMERALIS | 2.67 | 4.00 | 9.00 | 3.67 | 4.33 |
| PISIDIUM | 4.67 | 3.00 | 23.33 | 4.67 | 43.67 |
| PALPOMYIA | .33 | - | - | - | - |
| BAETIDAE | - | - | .33 | .33 | 1.67 |
| CAENIS | 16.67 | 4.33 | 1.33 | - | 11.00 |
| DECETIS | - | 1.00 | - | .33 | .33 |
| TSHNURA | - | - | - | .33 | - |
| ACARI | - | - | - | .33 | .67 |
| NEMATODA | 6.33 | 12.67 | 6.33 | 9.67 | 6.00 |
| TURBELLARIA | - | - | .67 | - | .67 |
| TOTAL | 1220.67 | 328.67 | 269.33 | 622.33 | 1792.67 |

CENTER BENTHIC MACROINVERTEBRATES 1973
MEAN NUMBERS PER PONAR GRAB (.040 SQ M)

| TAXA | 05/23/73 | 06/18/73 | 07/10/73 | 08/13/73 | 09/10/73 | 10/18/73 |
|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | 13.75 | - | - | .75 | - | - |
| ABLABESMYIA MONILIS | 1.00 | 2.00 | - | - | - | - |
| CHIRONOMUS DECORUS | 61.50 | 83.00 | 68.25 | 203.50 | 768.75 | - |
| GLYPTOTENDIPES | .25 | - | - | - | - | - |
| PAGASTIELLA ORophila | - | - | - | - | - | 21.25 |
| PROCLADIUS CULCIFORMIS | .50 | 6.50 | 2.50 | 20.00 | - | 47.75 |
| PSECTROCLADIUS | .50 | - | - | .25 | - | - |
| TANYTARSUS | - | - | - | 47.50 | - | 44.25 |
| OLIGOCHAETA | 23.50 | 39.50 | 114.75 | 31.00 | 144.25 | 7.50 |
| STYLARIA LACUSTRIS | - | - | .75 | - | - | - |
| TUBIFICIDAE | .50 | - | - | - | - | - |
| ILYODRILUS TEMPLETONI | - | .50 | 9.50 | - | .50 | 1.50 |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 33.75 | 66.75 | 27.00 | - | - | - |
| HELOBDELLA ELONGATA | - | - | - | - | - | .25 |
| HELOBDELLA STAGNALIS | .50 | 1.50 | 1.50 | 1.50 | .25 | 51.50 |
| HYALLELA AZTECA | - | .50 | - | 1.00 | 6.00 | 2.75 |
| MENETUS OPERCULARIS | - | - | - | .50 | .25 | 35.00 |
| VALVATA HUMERALIS | .25 | .50 | .25 | .25 | - | 2.50 |
| PISIDIUM | - | .25 | .50 | 27.25 | 2.00 | 56.50 |
| ACARI | - | - | - | - | - | .50 |
| NEMATODA | - | - | - | .50 | - | .50 |
| TOTAL | 136.00 | 201.00 | 225.00 | 334.00 | 922.00 | 271.75 |

RESORT BENTHIC MACROINVERTEBRATES 1973
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/23/73 | 06/18/73 | 07/10/73 | 08/13/73 | 09/10/73 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | - | 3.25 | - | - |
| ABLABESMYIA MONILIS | - | - | 1.25 | - | - |
| CHIRONOMUS DECORUS | - | - | .75 | - | - |
| CRICOTOPUS | - | .50 | - | - | - |
| CRYPTOTENDIPES AMACHERUS | 2.00 | .50 | - | - | - |
| DICROTENDIPES CALIFORNICUS | 9.00 | 1.50 | 3.25 | 13.75 | 6.50 |
| PAGASTIELLA OROPHILA | - | - | .25 | - | - |
| PARACHIRONOMUS ABORTIVUS | - | - | 12.50 | .25 | .25 |
| PROCLADIUS CULICIFORMIS | 3.00 | 6.75 | 2.75 | .75 | .50 |
| PSECTROCLADIUS | - | - | 5.00 | - | - |
| TANYTARSUS | - | 1.00 | 32.75 | - | .50 |
| OLIGOCHAETA | 1.00 | 1.25 | 4.00 | 1.50 | .25 |
| ILYODRILUS TEMPLETONI | - | - | .50 | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 1.00 | 1.75 | - | - | - |
| ERPODELLIDAE | - | .50 | .50 | .50 | .50 |
| GLOSSIPHONIA | - | .25 | - | - | - |
| GLOSSIPHONIA COMPLANATA | - | - | - | .25 | .50 |
| HELORDELLA ELONGATA | - | .50 | .75 | .25 | .25 |
| HELORDELLA STAGNALIS | 40.00 | 34.75 | 19.50 | 24.50 | 14.50 |
| CRANGONYX RICHMONDENSIS OCCIDENTALIS | 1.00 | 1.25 | .25 | - | 14.25 |
| HYALLELA AZTECA | 8.00 | 9.50 | 19.00 | 30.50 | 152.75 |
| PHYSA | - | - | - | .25 | 1.25 |
| MENETUS OPERCULARIS | - | .25 | - | - | 1.25 |
| VALVATA HUMERALIS | 3.00 | .25 | 1.75 | .75 | 2.00 |
| PISIDIUM | 1.00 | .50 | .50 | .25 | 2.00 |
| CALLIBAETIS | - | - | - | 2.50 | - |
| OECETIS | - | - | .25 | - | - |
| ACARI | 2.00 | - | .25 | 1.25 | 2.50 |
| TURBELLARIA | - | 1.00 | - | .50 | 10.75 |
| TOTAL | 71.00 | 62.00 | 109.00 | 77.75 | 214.50 |

WEST SIDE SUMMER HOMES BENTHIC MACROINVERTEBRATES 1973
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/23/73 | 06/18/73 | 07/10/73 | 08/13/73 | 09/10/73 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | .50 | 1.25 | 1.25 | .25 | - |
| ABLABESMYIA MONILIS | 15.25 | .25 | 2.50 | .25 | - |
| CHIRONOMUS DECORUS | - | - | 2.50 | - | 1.00 |
| DICROTENDIPES CALIFORNICUS | 45.00 | 3.25 | 13.00 | 28.25 | 2.00 |
| GLYPTOTENDIPES | - | - | .25 | - | - |
| PAGASTIELLA OROPHILA | 1.00 | - | .75 | - | - |
| PARACHIRONOMUS ABORTIVUS | - | 2.50 | 3.75 | 3.50 | .50 |
| PROCLADIUS CULICIFORMIS | 4.25 | 2.50 | 2.50 | .75 | .25 |
| PSECTROCLADIUS | 12.25 | .50 | 2.75 | - | - |
| TANYTARSUS | 3.75 | 2.25 | 228.50 | .25 | - |
| OLIGOCHAETA | .50 | 10.50 | 6.25 | 5.25 | .50 |
| ILYODRILUS TEMPLETONI | - | .50 | .25 | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | - | 10.75 | 1.50 | 1.50 | - |
| HELOBDELLA | - | - | - | .50 | - |
| HELOBDELLA ELONGATA | 1.00 | .25 | 2.75 | .25 | 1.75 |
| HELOBDELLA STAGNALIS | 27.00 | 77.75 | 48.25 | 47.50 | 15.75 |
| ORANCONYX RICHMONDENSIS OCCIDENTALIS | - | .75 | - | - | - |
| HYALELLA AZTECA | 17.75 | 50.75 | 5.50 | 97.25 | 58.25 |
| PHYSA | .25 | 7.75 | - | 4.75 | 2.00 |
| MENETUS OPERCULARIS | 1.50 | 46.25 | 3.50 | 45.25 | 5.75 |
| VALVATA HUMERALIS | 5.25 | 19.25 | 4.25 | 19.50 | 6.25 |
| PISIDIUM | .50 | 4.25 | 3.00 | .25 | .25 |
| CALLIBAETIS | 1.25 | 4.75 | - | 4.75 | 1.25 |
| CAENIS | - | 2.50 | .75 | 1.25 | .25 |
| OECETIS | - | 1.25 | .50 | - | - |
| ISHNURA | - | .25 | - | - | - |
| ACARI | 2.50 | 2.25 | 1.25 | .75 | 1.25 |
| NEMATODA | .75 | - | - | - | - |
| TUBELLARIA | - | .25 | - | - | - |
| TOTAL | 140.25 | 252.50 | 335.50 | 262.00 | 97.00 |

EAST SIDE CAMPGROUNDS BENTHIC MACROINVERTEBRATES 1973
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/23/73 | 06/18/73 | 07/10/73 | 08/13/73 | 09/10/73 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | 1.50 | 1.50 | - | - |
| ABLABESMYIA MONILIS | 3.00 | - | 2.50 | .75 | - |
| CHIRONOMUS DECORUS | - | .25 | 2.25 | .50 | - |
| CRICOTOPUS | - | - | .25 | 1.00 | - |
| CRYPTOTENDIPES AMACHERUS | - | .25 | - | - | - |
| DICROTENDIPES CALIFORNICUS | 16.00 | .50 | 4.25 | 8.25 | 1.25 |
| GLYPTOTENDIPES | - | .25 | - | - | - |
| PAGASTIELLA OPHILA | .75 | - | 9.25 | - | .25 |
| PARACHIRONOMUS ABORTIVUS | - | .50 | 2.25 | - | - |
| PROCLADIUS CULICIFORMIS | .50 | 4.25 | .75 | .50 | 1.50 |
| PSECTROCLADIUS | - | .50 | 1.00 | - | - |
| TANYTARSUS | - | 76.25 | 245.75 | - | .25 |
| OLIGOCHAETA | .25 | 2.00 | 16.25 | 1.00 | - |
| TUBIFICIDAE | - | 1.50 | - | - | - |
| ILYODRILUS TEMPLETONI | .25 | .25 | - | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | .75 | 3.50 | 11.75 | - | - |
| ERPODELLIDAE | - | .25 | .25 | - | .25 |
| GLOSSIPHONIA | - | .25 | - | - | - |
| GLOSSIPHONIA COMPLANATA | - | .25 | - | - | - |
| HELOBDELLA ELONGATA | .50 | - | 1.50 | - | .50 |
| HELOBDELLA STAGNALIS | 121.00 | 37.00 | 96.00 | 15.75 | 76.75 |
| HYALLELA AZTECA | 33.50 | 16.50 | 14.75 | 113.75 | 144.00 |
| PHYSA | 1.25 | - | - | 1.75 | .25 |
| MENETUS OPERCULARIS | 1.50 | 1.00 | 4.25 | 3.00 | 17.00 |
| VALVATA HUMERALIS | 13.50 | 7.75 | 10.75 | 9.00 | 9.00 |
| PISIDIUM | 1.00 | .50 | 1.00 | .75 | .50 |
| CALLIBAETIS | 2.25 | .75 | - | 3.00 | .50 |
| CEOETIS | - | - | .75 | - | - |
| ACARI | 1.75 | 1.75 | 1.25 | 1.00 | 1.25 |
| TURBELLARIA | 1.25 | .50 | 1.25 | .25 | .50 |
| TOTAL | 199.00 | 158.00 | 419.50 | 160.25 | 253.75 |

CENTER BENTHIC MACROINVERTEBRATES 1974
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 06/06/74 | 07/10/74 | 09/06/74 | 09/12/74 | 10/09/74 |
|---|---|---|---|---|---|
| CHIRONOMUS DECORUS | 304.50 | 124.25 | 74.25 | 177.00 | 269.75 |
| PROCLADIUS CULCIFORMIS | 20.75 | .50 | 1.50 | .50 | 4.25 |
| TANYTARSUS | 12.25 | - | - | - | .75 |
| OLIGOCHAETA | 73.00 | 101.75 | 24.75 | 19.25 | 9.75 |
| LUMBRICULUS | .50 | - | - | - | - |
| ILYODRILUS TEMPLETONI | 3.50 | 21.75 | - | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 42.50 | 63.25 | 11.25 | - | - |
| HELOBDELLA STAGNALIS | 1.00 | .25 | .75 | - | 6.25 |
| HYALLELA AZTECA | - | .25 | - | - | 1.00 |
| MENETUS OPERCULARIS | - | .50 | - | - | .25 |
| VALVATA HUMERALIS | - | - | - | - | .25 |
| PISIDIUM | 13.50 | - | .25 | 1.50 | 6.00 |
| ACARI | - | .25 | .25 | .25 | 2.25 |
| NEMATODA | 3.00 | - | - | - | 1.00 |
| TURBELLARIA | .75 | - | - | - | - |
| TOTAL | 475.25 | 312.75 | 113.00 | 198.50 | 300.50 |

RESORT BENTHIC MACROINVERTEBRATES 1974
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 06/05/74 | 07/10/74 | 08/06/74 | 09/12/74 | 10/09/74 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | - | - | - | .25 |
| ABLABESMYIA MONILIS | .50 | - | .50 | - | - |
| CHIRONOMUS DECORUS | - | 2.00 | 1.50 | .25 | - |
| DICROTENDIPES CALIFORNICUS | .25 | - | 2.25 | - | - |
| GLYPTOTENDIPES | 9.75 | - | - | - | .50 |
| PARACHIRONOMUS ABORTIVUS | - | - | .25 | - | - |
| POLYPEDILUM | - | .50 | - | - | - |
| PROCLADIUS CULCIFORMIS | .75 | - | - | - | - |
| PSECTROCLADIUS | .25 | - | - | - | - |
| TANYTARSUS | .25 | .50 | - | - | .25 |
| OLIGOCHAETA | .25 | - | - | - | - |
| GLOSSIPHONIA COMPLANATA | .25 | - | - | - | - |
| HELOBDELLA STAGNALIS | 9.75 | 5.25 | 7.50 | 18.25 | 2.50 |
| CRANGONYX RICHMONDENSIS OCCIDENTALIS | .25 | 3.25 | 5.00 | 31.50 | 4.75 |
| HYALLELA AZTECA | 4.50 | 16.00 | 12.25 | 33.50 | 10.00 |
| PHYSA | 1.25 | .75 | 2.25 | .25 | 1.00 |
| MENETUS OPERCULARIS | 2.75 | .75 | 2.50 | 1.50 | .50 |
| VALVATA HUMERALIS | 2.00 | 3.25 | 1.25 | 1.50 | .50 |
| PISIDIUM | .50 | .25 | 2.25 | 1.00 | - |
| CALLIBAETIS | - | - | 3.25 | .50 | 1.00 |
| AGRAYLEA | - | - | - | .25 | - |
| OECETIS | - | - | - | .25 | - |
| ACARI | - | - | .50 | .50 | .50 |
| TURBELLARIA | 6.75 | - | .50 | .25 | .50 |
| TOTAL | 39.00 | 32.50 | 41.75 | 89.50 | 22.25 |

WEST SIDE SUMMER HOMES BENTHIC MACROINVERTEBRATES 1974
MEAN NUMBERS PER EKMAN GRAB (.049 SQ M)

| TAXA | 06/06/74 | 07/10/74 | 08/06/74 | 09/12/74 | 10/09/74 |
|---|---|---|---|---|---|
| ABLABESMYIA MONILIS | 4.75 | .25 | .25 | - | - |
| CHIRONOMUS DECORUS | - | .50 | - | - | - |
| CRICOTOPUS | - | 1.00 | .50 | - | .25 |
| CRYPTOTENDIPES AMACHERIS | .75 | 1.75 | - | - | - |
| DICROTENDIPES CALIFORNICUS | 16.00 | .50 | 1.25 | - | 2.25 |
| GLYPTOTENDIPES | .25 | - | 5.25 | - | - |
| PAGASTIELLA ORNPHILA | .25 | - | - | - | - |
| PARACHIRONOMUS ABORTIVUS | - | .25 | 1.50 | - | - |
| POLYPEDILUM | - | .25 | - | - | - |
| PROCLADIUS CULICIFORMIS | 4.75 | 1.75 | 4.00 | - | - |
| PSECTROCLADIUS | .50 | .25 | - | - | .50 |
| TANYTARSUS | 2.00 | 12.25 | 3.25 | - | - |
| OLIGOCHAETA | 5.75 | 2.25 | 1.25 | - | - |
| STYLARIA LACUSTRIS | - | - | - | - | .25 |
| ILYODRILUS TEMPLETONI | .25 | - | - | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 1.25 | - | - | - | - |
| ERPODELLIDAE | - | - | - | - | .25 |
| HELOPDELLA ELONGATA | - | .25 | .25 | - | - |
| HELOPDELLA STAGNALIS | 23.25 | 5.25 | 63.00 | 46.25 | 40.50 |
| HYALLELA AZTECA | 36.50 | 5.50 | 6.00 | 3.75 | 13.50 |
| PHYSA | 1.00 | .75 | 2.00 | 2.00 | 1.25 |
| MENETUS OPERCULARIS | 18.50 | 2.50 | 28.00 | 1.75 | 11.50 |
| VALVATA HUMERALIS | 4.00 | 3.25 | 7.75 | 2.50 | 3.25 |
| PISIDIUM | 1.00 | - | - | .50 | - |
| CALLIBAETIS | 2.25 | 2.75 | - | 1.75 | 2.75 |
| CAENIS | - | .75 | .50 | - | - |
| COENAGRION | - | - | - | .25 | - |
| ISHNURA | - | - | - | - | .50 |
| ACARI | 2.00 | .50 | .75 | 1.00 | .50 |
| TURBELLARIA | - | - | - | - | .50 |
| TOTAL | 125.00 | 42.50 | 125.50 | 59.75 | 77.75 |

EAST SIDE CAMPGROUNDS BENTHIC MACROINVERTEBRATES 1974
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 06/06/74 | 07/10/74 | 08/06/74 | 09/12/74 | 10/09/74 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | - | .50 | - | - |
| ABLABESMYIA MONILIS | .50 | - | 1.75 | - | - |
| CRICOTOPUS | - | 1.25 | 1.25 | - | - |
| DICROTENDIPES CALIFORNICUS | 1.00 | - | 2.25 | - | 2.75 |
| MICROTENDIPES | .25 | - | - | - | - |
| PARACHIRONOMUS ABORTIVUS | - | - | 1.00 | - | - |
| PROCLADIUS CULICIFORMIS | - | - | .50 | - | .50 |
| TANYTARSUS | - | .25 | 1.25 | - | - |
| OLIGOCHAETA | .25 | .50 | 1.00 | .25 | .50 |
| ERPODELLIDAE | .25 | - | .25 | - | .25 |
| GLOSSIPHONIA COMPLANATA | 1.00 | .75 | .75 | .25 | .25 |
| HELOPDELLA ELONGATA | .25 | - | - | - | - |
| HELOBDELLA STAGNALIS | 7.75 | 5.00 | 48.00 | 50.75 | 57.25 |
| GRANGONYX RICHMONDENSIS OCCIDENTALIS | - | - | - | .25 | - |
| HYALLELA AZTECA | 31.00 | 16.00 | 80.00 | 61.75 | 30.75 |
| PHYSA | - | - | .75 | 1.00 | - |
| MENETUS OPERCULARIS | 35.00 | - | 1.00 | 1.00 | 3.25 |
| VALVATA HUMERALIS | 3.75 | 3.00 | 3.00 | 1.75 | 8.00 |
| PISIDIUM | .25 | .25 | 2.00 | - | - |
| CALLIBAETIS | 2.00 | 1.75 | 3.75 | 5.00 | 2.50 |
| OECETIS | - | - | .25 | - | - |
| COENAGRION | - | - | - | .25 | - |
| ACARI | 1.75 | .25 | .25 | 1.00 | .75 |
| TOTAL | 87.00 | 29.00 | 149.50 | 123.25 | 106.75 |

CENTER BENTHIC MACROINVERTEBRATES 1975
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 03/03/75 | 06/06/75 | 07/10/75 | 09/12/75 | 09/07/75 | 10/22/75 |
|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | - | 1.50 | - | - | .25 |
| CHIRONOMUS DECORUS | 139.50 | 255.25 | 209.50 | 44.75 | 283.00 | 141.25 |
| DICROTENDIPES CALIFORNICUS | .50 | - | - | - | - | .25 |
| GLYPTOTENDIPES | - | - | - | - | - | .25 |
| PAGASTIELLA OROPHILA | - | - | - | .25 | - | - |
| PROCLADIUS CULICIFORMIS | - | - | .50 | 4.00 | .50 | - |
| TANYTARSUS | - | - | - | - | .75 | - |
| OLIGOCHAETA | 96.75 | 84.25 | 62.00 | 79.00 | 79.50 | 36.50 |
| ILYODRILUS TEMPLETONI | .25 | 2.25 | .50 | - | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 52.25 | 62.25 | 39.75 | 67.00 | 27.50 | - |
| GLOSSIPHONIA COMPLANATA | - | .25 | - | - | - | - |
| HELOBDELLA STAGNALIS | - | .25 | .75 | 1.00 | .75 | .50 |
| HYALLELA AZTECA | - | - | .25 | .25 | 1.75 | 1.00 |
| MENETUS OPERCULARIS | - | .25 | - | - | .25 | - |
| VALVATA HUMERALIS | .25 | - | - | .25 | .25 | - |
| PISIDIUM | .50 | .25 | 3.00 | .25 | 3.25 | 3.75 |
| ACARI | - | - | - | .25 | - | .25 |
| TOTAL | 290.00 | 405.00 | 317.75 | 197.00 | 397.50 | 184.00 |

RESORT BENTHIC MACROINVERTEBRATES 1975
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 06/06/75 | 07/10/75 | 08/12/75 | 09/07/75 | 10/22/75 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | - | .75 | - | - |
| CHIRONOMUS DECORUS | - | .50 | - | 22.00 | 1.00 |
| CRICOTOPUS | - | - | 1.00 | - | - |
| DICROTENDIPES CALIFORNICUS | - | - | 2.50 | .50 | .50 |
| GLYPTOTENDIPES | - | .25 | .50 | 1.00 | .25 |
| PAGASTIELLA OROPHILA | - | - | 10.25 | - | - |
| PROCLADIUS CULCIFORMIS | .75 | .50 | 1.50 | 1.75 | 1.75 |
| PSECTROCLADIUS | - | - | 1.25 | - | - |
| TANYTARSUS | - | - | 4.75 | 34.75 | 1.50 |
| OLIGOCHAETA | 2.75 | 1.00 | 2.00 | .75 | .25 |
| STYLARIA LACUSTRIS | - | - | .75 | - | - |
| ILYODRILUS TEMPLETONI | - | - | - | .50 | .75 |
| ERPOBELLIDAE | - | .50 | - | - | - |
| GLOSSIPHONIA COMPLANATA | .25 | .25 | - | - | .25 |
| HELOBDELLA ELONGATA | - | - | - | .25 | - |
| HELOBDELLA STAGNALIS | 12.00 | 7.00 | 20.00 | 16.25 | 13.25 |
| CRANGONYX RICHMONDENSIS OCCIDENTALIS | 2.00 | .25 | - | 23.25 | 5.00 |
| HYALLELA AZTECA | 1.50 | 9.75 | 23.75 | 75.50 | 21.00 |
| PHYSA | - | - | - | 1.50 | 2.25 |
| MENETUS OPERCULARIS | 4.00 | 2.25 | 25.00 | 13.00 | 44.75 |
| VALVATA HUMERALIS | 2.25 | 3.25 | 30.25 | 12.50 | 11.25 |
| PISIDIUM | 2.50 | 11.00 | 48.75 | 3.50 | 2.00 |
| CALLIBAETIS | - | - | - | 2.50 | 2.00 |
| OECETIS | - | - | .25 | - | - |
| COENAGRION | - | - | .25 | - | - |
| ISHNURA | - | .25 | - | .50 | .25 |
| ACARI | .75 | - | .75 | .25 | .25 |
| TURBELLARIA | .75 | 1.25 | 4.75 | 1.25 | 1.25 |
| TOTAL | 29.50 | 38.00 | 179.00 | 211.50 | 109.50 |

WEST SIDE SUMMER HOMES BENTHIC MACROINVERTEBRATES 1975
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 06/06/75 | 07/10/75 | 08/12/75 | 09/07/75 | 10/22/75 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | 1.00 | .75 | - | - |
| ABLABESMYIA MONILIS | .25 | .25 | .50 | - | .50 |
| CHIRONOMUS DECORUS | - | - | - | - | .50 |
| DICROTENDIPES CALIFORNICUS | 27.75 | 11.50 | 32.75 | 23.50 | 130.00 |
| GLYPTOTENDIPES | - | - | 5.25 | - | .75 |
| PAGASTIELLA ORPHILA | - | - | - | .25 | .25 |
| PARACHIRONOMUS ABORTIVUS | 10.50 | - | - | - | - |
| PROCLADIUS CULCIFORMIS | 1.00 | .75 | 4.25 | 7.75 | 18.50 |
| PSECTROCLADIUS | 6.50 | - | 1.00 | 2.25 | 8.50 |
| TANYTARSUS | - | - | 12.75 | 25.25 | 56.00 |
| OLIGOCHAETA | .75 | - | .50 | - | 6.00 |
| TUBIFICIDAE | - | - | .25 | .25 | 5.00 |
| ILYODRILUS TEMPLETONI | - | - | - | - | 1.00 |
| ERPODELLIDAE | - | - | .25 | - | .50 |
| GLOSSIPHONIA COMPLANATA | - | - | - | .50 | - |
| HELOBDELLA ELONGATA | - | - | - | - | 1.00 |
| HELOBDELLA STAGNALIS | 39.00 | 33.75 | 21.75 | 61.75 | 65.75 |
| HYALLELA AZTECA | 6.75 | 9.00 | - | 19.00 | 33.25 |
| GASTROPODA | .25 | - | - | - | - |
| PHYSA | .75 | 1.25 | - | .25 | 5.00 |
| MENETUS OPERCULARIS | 12.00 | 6.00 | 2.75 | 4.00 | 28.25 |
| VALVATA HUMERALIS | 4.25 | 2.50 | 1.75 | 3.75 | 15.25 |
| PISIDIUM | .25 | 2.75 | 12.75 | 10.00 | 6.25 |
| COLEOPTERA | - | .25 | - | - | - |
| BAETIDAE | - | - | .25 | - | - |
| CALLIBAETIS | 4.75 | .25 | 1.00 | 1.25 | 4.75 |
| ISHNURA | 1.00 | - | - | .25 | .75 |
| ACARI | .25 | .75 | - | 1.25 | 1.00 |
| TURBELLARIA | .50 | - | - | - | - |
| TOTAL | 116.50 | 70.00 | 98.50 | 161.25 | 388.75 |

EAST SIDE CAMPGROUNDS BENTHIC MACROINVERTEBRATES 1975
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 06/06/75 | 07/10/75 | 08/12/75 | 09/07/75 | 10/22/75 |
|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | .25 | .50 | - | - |
| ABLABESMYIA MONILIS | - | .25 | .50 | - | .25 |
| CHIRONOMUS DECORUS | .50 | - | - | .25 | 1.25 |
| DICROTENDIPES CALIFORNICUS | 8.75 | 2.00 | 4.00 | 2.75 | 51.00 |
| GLYPTOTENDIPES | - | - | - | - | 4.50 |
| PAGASTIELLA CROPHILA | - | - | - | - | .50 |
| PROCLADIUS CULCIFORMIS | .50 | .25 | - | 1.75 | 13.00 |
| PSECTROCLADIUS | .25 | - | .50 | - | 1.25 |
| TANYTARSUS | - | - | .50 | 31.50 | 409.75 |
| OLIGOCHAETA | 1.00 | - | - | - | 2.75 |
| TUBIFICIDAE | - | - | 2.25 | 1.25 | 8.75 |
| ILYODRILUS TEMPLETONI | - | - | - | - | 2.00 |
| ERPODELLIDAE | - | - | .25 | - | .50 |
| GLOSSIPHONIA COMPLANATA | .50 | .25 | - | - | - |
| HELOBDELLA ELONGATA | - | - | - | .75 | - |
| HELOBDELLA STAGNALIS | 59.75 | 69.50 | 29.75 | 35.75 | 21.00 |
| CRANGONYX RICHMONDENSIS OCCIDENTALIS | - | .25 | - | - | .25 |
| HYALLELA AZTECA | 2.75 | 26.25 | 2.25 | 17.75 | 105.00 |
| PHYSA | - | 1.00 | 1.00 | .25 | 2.50 |
| MENETUS OPERCULARIS | .25 | 1.25 | 2.00 | 57.75 | 3.75 |
| VALVATA HUMERALIS | 2.75 | 8.25 | 5.00 | 8.25 | 8.50 |
| PISIDIUM | 1.50 | .50 | 2.50 | 3.50 | 10.25 |
| CALLIBAETIS | - | - | .25 | 3.00 | 6.50 |
| ACARI | .50 | - | .25 | .75 | .50 |
| TURBELLARIA | - | .25 | - | - | .50 |
| TOTAL | 75.00 | 110.25 | 51.50 | 165.25 | 654.25 |

CENTER BENTHIC MACROINVERTEBRATES 1976
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/21/76 | 06/29/76 | 07/20/76 | 08/17/76 | 09/15/76 | 10/13/76 |
|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | .25 | - | - | - | - |
| CHIRONOMUS DECORUS | 99.75 | 39.50 | 36.00 | 95.00 | 892.25 | 1051.50 |
| DICROTENDIPES CALIFORNICUS | - | .25 | - | - | - | .50 |
| PAGASTIELLA OROPHILA | - | - | - | - | .25 | - |
| PROCLADIUS CULICIFORMIS | .25 | 18.75 | 10.25 | .25 | - | .25 |
| PSECTROCLADIUS | .50 | - | - | - | - | - |
| TANYTARSUS | .25 | .25 | - | - | .50 | .25 |
| OLIGOCHAETA | 94.25 | 64.25 | 218.00 | 167.25 | 273.00 | 156.25 |
| STYLARIA LACUSTRIS | - | - | - | .25 | - | - |
| TUBIFEX TEMPLETONI | - | - | 9.75 | 13.25 | 1.25 | .25 |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 6.75 | 43.25 | 44.50 | 87.25 | - | - |
| HELOBDELLA ELONGATA | - | .25 | .25 | - | - | - |
| HELOBDELLA STAGNALIS | .50 | 26.50 | 3.00 | 2.25 | 1.50 | 4.75 |
| HYALLELA AZTECA | - | - | .25 | 1.75 | 3.75 | .25 |
| MENETUS OPERCULARIS | .25 | .75 | - | .25 | - | - |
| VALVATA HUMERALIS | - | .25 | .25 | .25 | - | - |
| PISIDIUM | .75 | 12.00 | - | 1.50 | 3.25 | .75 |
| ACARI | - | .25 | - | .50 | 4.00 | 3.25 |
| TURBELLARIA | - | - | - | .25 | - | - |
| TOTAL | 203.25 | 206.50 | 322.25 | 370.00 | 1179.75 | 1218.00 |

RESORT BENTHIC MACROINVERTEBRATES 1976
MEAN NUMBERS PER PONAR GRAB (.349 SQ M)

| TAXA | 05/21/76 | 06/29/76 | 07/20/76 | 08/17/76 | 09/15/76 | 10/13/76 |
|---|---|---|---|---|---|---|
| CHIRONOMIDAE | - | - | .25 | - | - | - |
| CHIRONOMIDAE - PUPAE | - | - | - | - | .25 | - |
| CHIRONOMUS DECORUS | 50.50 | - | 53.00 | 2.25 | 6.25 | - |
| CRICOTOPUS | .25 | - | - | - | - | - |
| CRYPTOTENDIPES AMACHERUS | - | .25 | - | - | - | - |
| DICROTENDIPES CALIFORNICUS | - | .50 | .25 | 8.75 | 5.25 | 18.00 |
| GLYPTOTENDIPES | 1.25 | 1.00 | - | - | - | - |
| MICROTENDIPES | - | - | .25 | - | - | - |
| PAGASTIELLA ORONHILA | - | - | 1.25 | 14.75 | 14.75 | 6.75 |
| PARACHIRONOMUS ARCTIVIUS | .75 | - | .50 | .25 | .75 | - |
| PROCLADIUS CULICIFORMIS | 21.00 | 1.25 | 4.00 | 15.50 | 27.25 | 25.00 |
| PSECTROCLADIUS | - | - | - | - | .50 | - |
| TANYTARSUS | 58.50 | 1.00 | 18.25 | 138.25 | 580.00 | 346.50 |
| OLIGOCHAETA | 3.25 | - | 2.75 | .25 | .50 | 1.50 |
| LUMBRICULUS | - | - | 2.00 | - | 3.25 | .50 |
| DERO DIGITATA | - | - | - | - | - | .50 |
| STYLARIA LACUSTRIS | - | - | - | .25 | - | - |
| TUBIFICIDAE | - | .25 | .75 | - | - | - |
| ERPOBELLIDAE | .75 | - | .50 | .75 | .25 | - |
| GLOSSIPHONIA COMPLANATA | - | - | .50 | .25 | .50 | .25 |
| HELOBDELLA ELONGATA | .50 | - | - | - | - | .25 |
| HELOBDELLA STAGNALIS | 9.00 | 6.75 | 17.00 | 38.50 | 16.25 | 35.75 |
| ORANCONYX RICHMONDENSIS OCCIDENTALIS | - | 1.75 | 1.75 | - | - | - |
| HYALLELA AZTECA | .50 | 4.75 | 24.25 | 108.25 | 204.50 | 35.00 |
| PHYSA | .75 | 4.00 | .50 | .25 | .75 | .75 |
| MENETUS OPERCULARIS | 12.00 | 18.25 | 8.50 | 4.25 | 5.25 | 4.75 |
| VALVATA HUMERALIS | 11.75 | .75 | 17.00 | 8.75 | 18.25 | 12.00 |
| PISIDIUM | 28.25 | 4.50 | 29.25 | 7.25 | 39.50 | 6.00 |
| CALLIBAETIS | - | - | - | .50 | 2.00 | .50 |
| TRICHOPTERA | .25 | - | - | - | - | - |
| ACARI | - | - | .25 | .25 | 1.00 | 1.50 |
| NEMATODA | - | - | - | - | .25 | - |
| TURBELLARIA | .50 | .50 | 6.75 | 2.00 | .75 | - |
| TOTAL | 199.75 | 45.50 | 189.50 | 351.25 | 928.00 | 495.50 |

WEST SIDE SUMMER HOMES BENTHIC MACROINVERTEBRATES 1976
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/21/76 | 06/29/76 | 07/20/76 | 08/17/76 | 09/15/76 | 10/13/76 |
|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | .25 | .25 | 11.00 | 8.00 | - |
| ABLABESMYIA MONILIS | .25 | - | 1.25 | - | - | - |
| CHIRONOMUS DECORUS | .75 | - | 95.75 | 158.00 | 225.25 | 13.25 |
| CRYPTOTENDIPES AMACHERUS | - | 2.75 | 2.00 | - | - | - |
| DICROTENDIPES CALIFORNICUS | 1.75 | 10.50 | - | 74.75 | 4.50 | 29.25 |
| GLYPTOTENDIPES | - | .25 | - | .50 | .25 | - |
| MICROTENDIPES | - | - | .25 | - | - | - |
| PAGASTIELLA OROPHILA | .50 | 17.75 | 11.50 | 42.75 | 49.25 | 17.75 |
| PARACHIRONOMUS ABORTIVUS | - | - | 2.00 | - | - | - |
| PROCLADIUS CULICIFORMIS | 41.00 | 20.00 | 12.75 | 92.50 | 82.75 | 53.00 |
| PSECTROCLADIUS | - | - | 3.25 | - | - | - |
| TANYTARSUS | 44.00 | 3.25 | 105.00 | 434.25 | 708.00 | 358.00 |
| OLIGOCHAETA | 1.50 | 6.25 | 4.25 | 3.50 | 1.25 | - |
| TUBIFICIDAE | 2.25 | 7.25 | .25 | - | - | - |
| ILYODRILUS TEMPLETONI | - | .25 | 2.75 | .25 | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | - | 5.00 | 1.00 | 2.25 | .50 | .50 |
| ERPOBELLIDAE | - | - | - | - | - | .50 |
| HELOBDELLA ELONGATA | .25 | .75 | 1.25 | 2.50 | .25 | .75 |
| HELOPDELLA STAGNALIS | 94.50 | 47.50 | 37.00 | 81.00 | 26.75 | 43.50 |
| HYALLELA AZTECA | - | - | .25 | 1.25 | 3.75 | 12.00 |
| PHYSA | .25 | - | .25 | 3.25 | .75 | 1.00 |
| MENETUS OPERCULARIS | 18.50 | 1.25 | 12.50 | 27.50 | 9.25 | 20.00 |
| VALVATA HUMERALIS | 2.75 | 1.50 | 4.75 | 7.25 | 3.75 | 6.25 |
| PISIDIUM | 4.00 | - | 4.25 | 1.25 | 26.75 | 6.50 |
| CALLIBAETIS | - | - | - | .25 | - | - |
| ACARI | .50 | .25 | - | 1.00 | 1.25 | 1.25 |
| NEMATODA | - | - | - | 2.50 | - | - |
| TURBELLARIA | - | - | .50 | - | - | .50 |
| TOTAL | 212.75 | 124.75 | 303.00 | 947.50 | 1152.25 | 570.00 |

EAST SIDE CAMPGROUNDS BENTHIC MACROINVERTEBRATES 1976
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 05/21/76 | 06/29/76 | 07/20/76 | 08/17/76 | 09/15/76 | 10/13/76 |
|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | - | 2.00 | .25 | - | - |
| ABLABESMYIA MONILIS | .75 | - | - | - | - | - |
| CHIRONOMUS DECORUS | .50 | - | 3.00 | 15.25 | .75 | - |
| CRICOTOPUS | .25 | - | .25 | - | .75 | - |
| CRYPTOTENDIPES AMACHERUS | - | - | 1.75 | - | - | - |
| DICROTENDIPES CALIFORNICUS | 9.75 | 23.75 | - | 7.75 | .25 | 2.75 |
| GLYPTOTENDIPES | - | .25 | 1.25 | - | - | - |
| PAGASTIELLA OROPHILA | 3.50 | 22.75 | 23.00 | 48.50 | 17.25 | 5.50 |
| PARACHIRONOMUS APORTIVUS | - | .50 | .25 | - | - | .25 |
| PROCLADIUS CULCIFORMIS | 21.75 | 38.50 | 22.50 | 27.00 | 7.50 | 1.25 |
| PSECTROCLADIUS | - | - | 1.50 | .25 | - | - |
| TANYTARSUS | 131.50 | 12.00 | 198.25 | 399.75 | 178.25 | 39.00 |
| OLIGOCHAETA | 1.75 | 1.25 | 4.25 | 4.00 | - | - |
| DERO DIGITATA | - | - | - | - | - | .50 |
| ILYODRILUS TEMPLETONI | - | - | .50 | - | - | .25 |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 6.00 | - | .50 | .50 | .75 | .75 |
| ERPODELLIDAE | .50 | .50 | - | .50 | 1.50 | 1.50 |
| GLOSSIPHONIA | .75 | - | - | - | - | - |
| GLOSSIPHONIA COMPLANATA | .25 | - | - | 1.75 | .75 | .50 |
| HELOBDELLA ELONGATA | - | .75 | - | .75 | .25 | .25 |
| HELOBDELLA STAGNALIS | 86.75 | 43.00 | 27.00 | 83.75 | 50.75 | 39.25 |
| HYALLELA AZTECA | 13.50 | 27.25 | 21.50 | 80.25 | 95.25 | 73.00 |
| PHYSA | 1.25 | .50 | .50 | 2.50 | 5.25 | 3.25 |
| MENETUS OPERCULARIS | 2.00 | 2.00 | 4.75 | 22.00 | 31.75 | 19.75 |
| VALVATA HUMERALIS | 11.25 | 5.00 | 9.50 | 4.50 | 10.50 | 7.25 |
| PISIDIUM | 12.25 | 12.25 | 26.75 | 44.25 | 29.00 | 18.25 |
| CALLIBAETIS | - | .75 | - | 1.75 | .75 | 5.25 |
| OECETIS | - | .50 | - | - | - | - |
| ISHNURA | .25 | - | - | - | - | - |
| ACARI | 2.75 | .50 | .50 | 1.00 | .50 | 2.00 |
| NEMATODA | - | - | - | .75 | - | - |
| TURBELLARIA | 12.75 | 16.75 | 19.50 | 31.50 | 9.75 | 21.75 |
| TOTAL | 320.00 | 208.75 | 369.00 | 778.50 | 441.50 | 242.25 |

CENTER BENTHIC MACROINVERTEBRATES 1977
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 04/28/77 | 06/02/77 | 06/29/77 | 07/20/77 | 08/17/77 | 09/28/77 | 10/26/77 |
|---|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | - | - | - | - | .25 | - |
| CHIRONOMUS DECORUS | 1102.25 | 1120.00 | 822.75 | 579.00 | 744.00 | 538.25 | 596.33 |
| DICROTENDIPES CALIFORNICUS | .25 | .25 | - | - | - | 1.50 | 1.00 |
| PAGASTIELLA CROPHILA | - | - | - | .25 | - | - | - |
| PARACHIRONOMUS APORTIVLS | - | - | - | - | .25 | - | - |
| PROCLADIUS CULCIFORMIS | .50 | 1.50 | 1.50 | .50 | .25 | 1.00 | 1.67 |
| PSECTROCLADIUS | - | - | - | - | .25 | - | - |
| TANYTARSUS | - | - | .25 | - | - | .75 | 25.33 |
| OLIGOCHAETA | - | - | .50 | - | - | - | - |
| DERO DIGITATA | 3.75 | 3.75 | 2.25 | 5.50 | - | .75 | 4.33 |
| ILYODRILUS TEMPLETONI | 191.25 | 178.75 | 141.50 | 73.00 | 160.50 | 120.75 | 134.67 |
| LIMNODRILUS | 501.25 | - | - | - | 336.00 | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 213.00 | 257.00 | 603.00 | 254.50 | 173.50 | 364.75 | 352.33 |
| HELOBDELLA ELONGATA | - | - | - | .50 | .25 | - | - |
| HELOBDELLA STAGNALIS | 1.50 | 1.75 | 2.75 | 3.00 | .50 | 2.00 | 3.67 |
| HYALLELA AZTECA | - | - | .25 | - | .50 | 2.25 | 3.00 |
| MENETUS OPERCULARIS | .25 | - | .50 | - | - | .25 | - |
| VALVATA HUMERALIS | - | .25 | - | - | .25 | .25 | .33 |
| PISIDIUM | - | .25 | .25 | 2.75 | .75 | .50 | 5.33 |
| CALLIBAETIS | - | - | - | - | - | .25 | - |
| ACARI | 2.25 | 2.75 | 1.25 | .50 | 1.00 | 3.75 | 1.33 |
| NEMATODA | 6.25 | - | - | - | - | - | .33 |
| TURBELLARIA | .50 | - | - | - | - | - | .33 |
| TOTAL | 2023.00 | 1566.25 | 1576.75 | 919.50 | 1418.00 | 1037.25 | 1130.00 |

DESERT BENTHIC MACROINVERTEBRATES 1977
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 04/28/77 | 06/02/77 | 06/29/77 | 07/20/77 | 08/17/77 | 09/28/77 | 10/26/77 |
|---|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | 4.50 | - | 1.25 | .75 | - | - | - |
| ABLABESMYIA MONILIS | - | - | - | .75 | .25 | - | - |
| CHIRONOMUS DECORUS | 4.00 | - | 7.75 | 43.25 | 3.25 | .75 | - |
| CRICOTOPUS | - | - | - | .25 | - | - | - |
| CRYPTOTENDIPES AMACHERUS | - | - | .75 | - | - | - | - |
| DICROTENDIPES CALIFORNICUS | 1.75 | 52.00 | - | 16.00 | 3.25 | 31.25 | 106.25 |
| GLYPTOTENDIPES | 1.25 | .50 | - | - | .25 | - | .50 |
| PAGASTIELLA CROPHILA | 94.25 | 18.50 | 85.50 | 58.00 | 112.25 | - | - |
| PARACHIRONOMUS ABORTIVIS | - | .25 | 1.00 | 1.00 | - | - | - |
| PROCLADIUS CULICIFORMIS | 32.25 | 13.00 | 21.25 | 12.25 | 13.25 | .75 | 1.50 |
| PSECTROCLADIUS | - | - | - | - | - | - | .50 |
| TANYTARSUS | 707.50 | 4.25 | 105.00 | 16.75 | 84.50 | .75 | 1.00 |
| OLIGOCHAETA | .25 | - | .25 | - | - | - | .25 |
| LUMBRICULUS | 6.00 | - | 1.00 | - | 16.75 | .25 | 1.00 |
| DERO DIGITATA | 50.75 | 49.25 | .25 | 3.75 | 11.50 | 55.00 | 50.50 |
| STYLARIA LACUSTRIS | - | - | - | - | .75 | 18.00 | 2.50 |
| ILYODRILUS TEMPLETONI | 2.00 | .75 | .50 | .25 | .50 | - | .25 |
| LIMNODRILUS | 1.50 | 2.00 | .50 | - | 2.00 | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 5.75 | 2.25 | .50 | .50 | 1.50 | 4.00 | 1.00 |
| ERPODELLIDAE | .75 | .50 | - | - | .50 | - | - |
| GLOSSIPHONIA COMPLANATA | 2.00 | - | .25 | .25 | .50 | .25 | - |
| HELOBDELLA ELONGATA | - | - | .25 | 1.25 | - | - | - |
| HELOBDELLA STAGNALIS | 14.00 | 48.50 | 45.25 | 25.50 | 18.75 | 47.75 | 35.25 |
| CRANGONYX RICHMONDENSIS OCCIDENTALIS | .25 | 1.00 | - | 1.50 | 1.75 | 6.50 | - |
| HYALLELA AZTECA | 22.75 | 4.50 | 14.50 | 19.50 | 115.25 | 119.50 | 54.25 |
| PHYSA | .25 | - | - | - | - | - | - |
| MENETUS OPERCULARIS | 13.75 | .25 | .25 | 5.00 | 3.50 | .25 | - |
| VALVATA HUMERALIS | 31.00 | 5.00 | .75 | 6.75 | 19.25 | 1.75 | .50 |
| PISIDIUM | 40.25 | 4.50 | 3.25 | 5.75 | 15.75 | 1.50 | 1.00 |
| CALLIBAETIS | - | - | - | - | .25 | 5.50 | 4.25 |
| TSHNURA | - | - | - | - | - | - | .25 |
| ACARI | 5.75 | .25 | .25 | 1.25 | .50 | 4.00 | 2.50 |
| NEMATODA | 4.00 | - | - | - | - | - | - |
| TURBELLARIA | 18.75 | 14.25 | 9.25 | 5.00 | 18.75 | 23.25 | 12.50 |
| TOTAL | 1069.25 | 221.50 | 299.50 | 225.25 | 444.75 | 321.00 | 275.75 |

WEST SIDE SUMMER HOMES BENTHIC MACROINVERTEBRATES 1977
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 04/28/77 | 06/02/77 | 06/29/77 | 07/20/77 | 08/17/77 | 09/28/77 | 10/26/77 |
|---|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | 5.25 | .25 | - | .75 | 1.25 | - | - |
| ABLABESMYIA MONILIS | .50 | - | - | 1.00 | 1.25 | - | - |
| CHIRONOMUS DECORUS | 16.50 | - | 1.75 | 68.75 | 23.25 | .25 | .25 |
| CRYPTOTENDIPES AMACHERUS | - | 1.00 | 2.75 | - | - | - | - |
| DICROTENDIPES CALIFORNICUS | 35.75 | 36.25 | .50 | 58.25 | 25.25 | 44.50 | 88.00 |
| GLYPTOTENDIPES | .25 | 7.00 | - | - | - | - | - |
| MICROTENDIPES | - | - | .50 | - | - | - | - |
| PAGASTIELLA OROPHILA | 53.00 | 20.00 | 55.25 | 7.00 | 3.25 | .25 | 14.00 |
| PARACHIRONOMUS ABORTIVUS | - | - | .25 | - | - | - | - |
| PROCLADIUS CULICIFORMIS | 78.25 | 25.75 | 13.00 | 21.00 | 25.75 | 9.00 | 38.75 |
| PSECTROCLADIUS | - | - | - | .50 | 1.00 | .50 | .50 |
| TANYTARSUS | 248.75 | 17.50 | 23.25 | 45.25 | 96.00 | 59.50 | 415.50 |
| LUMBRICULUS | - | .25 | - | - | - | .25 | - |
| DERO DIGITATA | 10.25 | 1.75 | - | - | 4.00 | 16.25 | 1.50 |
| NAIS SIMPLEX | - | - | - | - | .75 | - | - |
| STYLARIA LACUSTRIS | - | - | - | - | .75 | 9.25 | .50 |
| ILYODRILUS TEMPLETONI | - | .50 | - | - | - | - | - |
| LIMNODRILUS | 1.50 | .25 | - | - | 4.25 | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 1.00 | .50 | .25 | .75 | .25 | 1.75 | 1.50 |
| ERPOBDELLIDAE | 1.00 | .75 | .25 | .25 | 1.00 | 1.50 | 2.25 |
| GLOSSIPHONIA COMPLANATA | - | - | - | - | - | .75 | .25 |
| HELOBDELLA ELONGATA | .25 | - | 2.25 | 1.25 | .50 | 1.00 | 1.75 |
| HELOBDELLA STAGNALIS | 35.25 | 30.75 | 19.75 | 17.00 | 45.25 | 52.50 | 66.00 |
| CRANGONYX RICHMONDENSIS OCCIDENTALIS | - | - | - | - | - | .25 | .25 |
| HYALLELA AZTECA | 5.75 | 8.75 | 2.25 | - | 7.50 | 81.50 | 105.50 |
| PHYSA | .50 | 1.00 | .25 | - | 1.50 | .25 | .50 |
| MENETUS OPERCULARIS | 13.00 | 8.25 | .50 | 24.00 | 79.00 | 29.75 | 36.50 |
| VALVATA HUMERALIS | 16.25 | 21.50 | 3.25 | 10.75 | 30.50 | 22.75 | 68.50 |
| PISTDIUM | 8.75 | 7.25 | 3.75 | 14.25 | 3.75 | 9.50 | 13.00 |
| CALLIBAETIS | - | - | - | - | 2.50 | 5.25 | 5.00 |
| COENAGRION | - | - | - | - | - | .25 | - |
| ACARI | 2.50 | 1.50 | .50 | .75 | 1.50 | 8.75 | 33.00 |
| NEMATODA | .25 | - | - | - | - | - | - |
| TURBELLARIA | - | .25 | .25 | .75 | .50 | 1.00 | 5.50 |
| TOTAL | 534.50 | 191.00 | 130.50 | 272.25 | 360.50 | 356.50 | 898.50 |

EAST SIDE CAMPGROUNDS BENTHIC MACROINVERTEBRATES 1977
MEAN NUMBERS PER PONAR GRAB (.049 SQ M)

| TAXA | 04/28/77 | 06/02/77 | 06/29/77 | 07/20/77 | 08/17/77 | 09/28/77 | 10/26/77 |
|---|---|---|---|---|---|---|---|
| CHIRONOMIDAE - PUPAE | - | - | .25 | .50 | - | - | - |
| ABLABESMYIA MONILIS | - | - | - | .50 | .25 | - | - |
| CHIRONOMUS DECORUS | - | - | 1.25 | 45.00 | 2.75 | 17.50 | - |
| CRICOTOPUS | .25 | .50 | .25 | .75 | .25 | - | - |
| CRYPTOTENDIPES AMACHERUS | - | 1.50 | - | - | - | - | - |
| DICROTENDIPES CALIFORNICUS | 57.00 | 38.50 | - | 27.25 | 1.50 | 152.75 | 124.50 |
| GLYPTOTENDIPES | - | - | - | - | - | - | .25 |
| PAGASTIELLA OROPHILA | .75 | 35.75 | 2.75 | 1.50 | 2.50 | 1.50 | .50 |
| PARACHIRONOMUS ABORTIVUS | - | - | 1.75 | - | .25 | - | - |
| PROCLADIUS CULCIFORMIS | .50 | 13.50 | 3.50 | 18.75 | 6.75 | 44.25 | 25.00 |
| PSECTROCLADIUS | .25 | - | .75 | .75 | - | - | .50 |
| TANYTARSUS | 2.00 | 27.00 | 7.75 | 239.00 | 34.75 | 278.00 | 14.25 |
| OLIGOCHAETA | 1.50 | - | .50 | - | .25 | .25 | .25 |
| LUMBRICULUS | - | - | .25 | - | 1.75 | - | .25 |
| DERO DIGITATA | 1.50 | 1.50 | 2.00 | 2.50 | - | 1.75 | 10.00 |
| NAIS SIMPLEX | - | .25 | - | - | .50 | - | - |
| PRISTINA | - | - | - | - | .25 | - | - |
| STYLARIA LACUSTRIS | - | - | 4.25 | 1.75 | 8.75 | - | - |
| VEJDOVSKYELLA | - | - | - | - | .25 | - | - |
| ILYODRILUS TEMPLETONI | .25 | - | - | 1.00 | - | - | - |
| LIMNODRILUS | 3.50 | 3.75 | - | - | - | - | - |
| LIMNODRILUS HOFFMEISTERI SPIRALIS | 2.75 | 2.75 | 2.00 | 1.75 | .25 | 7.25 | 4.50 |
| ERPODELLIDAE | .50 | .50 | .25 | 1.50 | 1.25 | .75 | .50 |
| GLOSSIPHONIA COMPLANATA | .75 | .25 | 1.00 | .50 | .75 | - | 2.50 |
| HELOBDELLA ELONGATA | - | .25 | .25 | - | .50 | - | .50 |
| HELOBDELLA STAGNALIS | 124.75 | 54.50 | 33.25 | 23.25 | 25.50 | 36.00 | 29.50 |
| CRANGONYX RICHMONDENSIS OCCIDENTALIS | - | - | - | - | - | - | 3.75 |
| HYALLELA AZTECA | 15.00 | 28.50 | 6.25 | 2.50 | 99.25 | 180.25 | 177.25 |
| PHYSA | .25 | - | 1.00 | - | .75 | - | - |
| MENETUS OPERCULARIS | 3.00 | - | 13.25 | 33.75 | 54.00 | - | .50 |
| VALVATA HUMERALIS | 11.75 | 1.75 | 13.25 | 4.25 | 15.75 | .25 | 9.25 |
| PISIDIUM | 19.25 | 31.00 | 6.75 | 7.75 | 34.75 | 3.00 | 2.75 |
| CALLIBAETIS | - | - | - | - | - | 2.25 | 9.75 |
| ACARI | 1.00 | .25 | - | - | 1.00 | 2.25 | 16.25 |
| TURBELLARIA | 16.75 | 3.00 | 6.75 | 3.50 | 10.50 | 3.25 | 10.75 |
| TOTAL | 263.25 | 245.00 | 109.25 | 418.00 | 305.00 | 731.25 | 443.25 |

## PHYSICAL/CHEMICAL

Lake water was collected with a PVC Van Dorn bottle and distributed to polyethylene containers. Tributaries were sampled by dipping the polyethylene containers directly. Specific conductance, pH and dissolved oxygen (DO) determinations were done in the field, in situ when possible. From 1975-77, a multiple parameter sensing unit was employed. The New England Research Associates, Inc., Model 4 Environmental Monitor (NERA Inc., Bedford, MA) recorded in situ temperature, conductance, pH, DO, redox potential and depth. Earlier DO analysis followed the azide modification of the Winkler method. Transparency was measured with a 20 cm Secci disc.

Chemical analyses generally were done at the EPA laboratory in Corvallis. Samples for nutrient and metals analysis were field stabilized with mercuric chloride and nitric acid, respectively, before transporation. Standard EPA methodology (EPA, 1971) generally was followed.

DIAMOND LAKE
SECCHI DISC TRANSPARENCY (m)

| | |
|---|---|
| 06/04/71 | 2.3 |
| 07/07/71 | 4.6 |
| 08/03/71 | 7.6 |
| 09/01/71 | 4.1 |
| 09/27/71 | 2.1 |
| 05/24/72 | 4.0 |
| 06/15/72 | 7.7 |
| 06/27/72 | 10.5 |
| 07/24/72 | 4.8 |
| 08/22/72 | 4.8 |
| 05/23/73 | 3.5 |
| 06/18/73 | 6.5 |
| 07/10/73 | 6.5 |
| 08/14/73 | 7.0 |
| 09/11/73 | 5.8 |
| 10/18/73 | 4.5 |
| 06/05/74 | 5.5 |
| 07/10/74 | 10.5 |
| 08/07/74 | 8.3 |
| 09/11/74 | 6.5 |
| 10/09/74 | 6.3 |
| 12/04/74 | 7.3 |
| 06/05/75 | 2.8 |
| 07/09/75 | 5.5 |
| 08/13/75 | 7.8 |
| 09/18/75 | 7.5 |
| 10/22/75 | 4.0 |
| 05/20/76 | 4.3 |
| 06/30/76 | 6.0 |
| 07/21/76 | 8.5 |
| 08/18/76 | 9.8 |
| 09/15/76 | 6.0 |
| 10/14/76 | 5.0 |
| 04/28/77 | 2.3 |
| 06/02/77 | 8.0 |
| 06/30/77 | 7.5 |
| 07/20/77 | 8.0 |
| 08/18/77 | 6.5 |
| 09/27/77 | 5.8 |
| 10/27/77 | 5.8 |

DIAMOND LAKE
CENTER STATION, SURFACE

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .04 | --- | .014 | <.001 | .6 | .002 | 5. | 2. | 15.0 |
| 07/07/71 | .017 | --- | .007 | .002 | .5 | .010 | 1. | 4. | 9.4 |
| 08/03/71 | .015 | --- | .031 | .008 | .3 | <.001 | 3. | 3. | 9.9 |
| 09/01/71 | .035 | --- | .0155 | .02 | .9 | .004 | 0. | 3. | 11.0 |
| 09/27/71 | .13 | .13 | .0085 | .01 | .7 | .009 | 2.0 | 4. | 18.2 |
| 02/02/72 | .012 | --- | .0125 | .062 | .4 | .002 | <1.0 | 5. | 4.25 |
| 05/24/72 | .036 | .012 | --- | <.001 | .3 | <.001 | 3. | 3.3 | 6.3 |
| 06/27/72 | .017 | .015 | --- | .006 | .4 | <.001 | 3. | 4.0 | 6.8 |
| 07/24/72 | .024 | .015 | --- | .018 | .7 | .006 | 2. | 4. | 7.45 |
| 08/22/72 | .034 | .033 | --- | .01 | .5 | .001 | 2. | 4. | 7.4 |
| 09/25/72 | .048 | .035 | --- | .007 | .4 | .002 | 1. | 5. | 3. |
| 05/23/73 | .02 | .01 | --- | .009 | .3 | --- | 2. | --- | 6.7 |
| 06/18/73 | .015 | .015 | --- | .013 | .15 | .025 | 1.9 | --- | 6.1 |
| 07/10/73 | --- | .005 | --- | .012 | --- | .044 | --- | --- | 5.7 |
| 08/14/73 | .05 | .005 | .006 | .039 | .63 | .053 | 3.4 | --- | 5.8 |
| 09/11/73 | .04 | .025 | --- | .002 | .3 | .008 | 3.2 | --- | 5.1 |
| 10/18/73 | .015 | .015 | --- | .016 | .36 | .008 | 4.2 | 1.5 | 1.47 |
| 06/05/74 | .025 | .01 | --- | --- | .3 | --- | 2. | <1. | 4.75 |
| 07/10/74 | .015 | <.005 | --- | --- | .2 | --- | 4.5 | <1. | 4.4 |
| 08/07/74 | .005 | <.005 | --- | --- | .2 | --- | 3.3 | <1. | 4.5 |
| 09/11/74 | .02 | .01 | --- | --- | .4 | --- | 3.1 | 2.8 | 4.7 |
| 09/15/74 | --- | --- | --- | --- | --- | --- | 4.1 | 3.1 | --- |
| 10/09/74 | .04 | --- | --- | --- | .4 | --- | 4. | <1. | 4.7 |
| 12/04/74 | .03 | .02 | --- | --- | .3 | --- | 2.4 | 2.4 | 1.26 |
| 03/03/75 | --- | <.01 | .01 | --- | --- | --- | --- | --- | 1.6 |
| 06/05/75 | .03 | <.01 | .005 | <.005 | .275 | .005 | 2.8 | <1. | 1.2 |
| 07/09/75 | .02 | <.01 | .005 | <.005 | .35 | .005 | 2.6 | 1.1 | 4.5 |
| 08/13/75 | .01 | <.01 | <.005 | <.005 | .25 | .005 | 3.2 | <1. | 4.15 |
| 09/18/75 | .04 | .04 | .01 | .015 | .3 | .005 | 3. | <1. | 4. |

DIAMOND LAKE
CENTER STATION, SURFACE

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | .04 | .03 | <.005 | <.005 | .4 | .005 | 3.5 | <1. | .46 |
| 05/20/76 | .02 | <.01 | .005 | .005 | .25 | <.005 | 2.4 | 2.5 | --- |
| 06/30/76 | .05 | <.01 | .005 | .01 | .3 | .007 | 2.9 | <1. | 10.3 |
| 07/21/76 | .065 | <.01 | .007 | <.005 | .3 | <.005 | 2.9 | <1. | 13.1 |
| 08/18/76 | .03 | .015 | .015 | .07 | .6 | .005 | 2.3 | <1. | 8.8 |
| 09/15/76 | .04 | --- | .012 | .022 | .3 | .005 | 3.1 | <1. | 4.5 |
| 10/14/76 | .03 | --- | --- | --- | .3 | --- | 3.8 | <1. | --- |
| 04/28/77 | .05 | --- | .007 | .013 | .38 | .006 | 3.6 | <1. | 5.1 |
| 06/02/77 | .03 | .02 | .01 | <.005 | .35 | .005 | 2.8 | 2. | 4.7 |
| 06/30/77 | .04 | .01 | <.005 | .007 | .04 | <.005 | 2.7 | <1. | 4.8 |
| 07/20/77 | .0365 | .012 | <.005 | .0155 | .318 | <.005 | 3.6 | <1. | 2.02 |
| 08/18/77 | .0715 | .019 | <.005 | .0105 | .8 | <.005 | 4.9 | 1. | 2.39 |
| 09/27/77 | .061 | .0465 | .0195 | .099 | .523 | .012 | 3.6 | 1. | 2.5 |
| 10/27/77 | .048 | .0225 | .0105 | .035 | .391 | <.005 | 3.8 | 1. | <.1 |

DIAMOND LAKE
CENTER STATION, SURFACE

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 140. | --- | 81. | --- | 2. | --- | 10.5 | 2.2 | .9 | 3.2 | 1. |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 2.6 | 1. |
| 08/03/71 | --- | 26. | --- | 2. | --- | 2. | --- | 3. | 1.9 | 1. | 2.6 | .81 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 3.1 | 1.1 |
| 09/27/71 | --- | 83. | --- | 3. | --- | 1. | --- | 5.7 | 1.7 | .9 | 3.2 | 1. |
| 02/02/72 | --- | 50. | --- | 6. | --- | 3. | --- | 13. | 4.8 | 1.15 | 6.2 | 1.1 |
| 05/24/72 | 68. | 30. | 5. | 2. | 3. | 1. | 13. | 11. | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 70. | 42. | 4. | 2. | 3. | --- | 16. | 16. | 1.8 | 1. | 2.8 | 1. |
| 07/24/72 | 35. | 26. | 1. | <1. | 4. | 3. | 4. | 2. | 2. | .8 | 2.9 | .9 |
| 08/22/72 | 75. | --- | 2. | 1. | 4. | --- | 7. | --- | 2.1 | .9 | 2.9 | .85 |
| 09/25/72 | 59. | --- | 3. | 3. | 4. | 3. | 13. | --- | 2.1 | 1. | 3.2 | 1. |
| 05/23/73 | 66. | 29. | 2. | <1. | 1. | 1. | 16. | 43.5 | 1.9 | 1. | 3.2 | 1.2 |
| 06/18/73 | 27. | 34. | 2. | 1. | <1. | 2. | 4. | 3. | 2. | 1. | 3.2 | 1. |
| 07/10/73 | 23. | 17. | 2. | 1. | 2. | 2. | 2.5 | 4. | 2.2 | 1.1 | 3.3 | 1. |
| 08/14/73 | 40. | 34. | 3. | 2. | 2. | 1. | 2. | 9. | 2.2 | 1. | 3.8 | 1.1 |
| 09/11/73 | 69. | 60. | 2. | 1. | <1. | 1. | 4. | 9. | 2.2 | 1.1 | 3.3 | 1. |
| 10/18/73 | 96. | 43. | 3. | 1. | 6. | 2. | 4. | 2. | 1.9 | 1. | 3.3 | .8 |
| 06/05/74 | 97. | 55. | 2. | <1. | 1. | 3. | 2. | 4. | 1.7 | .9 | 3.2 | .9 |
| 07/10/74 | 38. | 40. | 2. | 2. | 2. | 3. | 2. | 3. | 1.6 | 1. | 3. | .9 |
| 08/07/74 | 33. | 22. | 2. | 1. | 3. | 3. | 1. | 4. | 1.9 | .9 | 3. | .9 |
| 09/11/74 | 74. | 47. | 4.4 | 4.4 | 5. | 5. | 6.3 | 5.8 | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.4 |
| 10/09/74 | 86. | 43. | 3. | 3. | 32. | 34. | 8. | --- | --- | --- | --- | .9 |
| 12/04/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | --- |
| 03/03/75 | 30. | 16. | 2. | <1. | 7. | 3. | 16. | 15. | --- | --- | --- | --- |
| 06/05/75 | --- | 33. | --- | <10. | --- | 6. | --- | 12. | 2. | 1.2 | 3.7 | 1.1 |
| 07/09/75 | 24. | 16. | 2. | <1. | 2. | 3. | 4. | 5.5 | 1.6 | .9 | 3.4 | 1. |
| 08/13/75 | 29. | 31. | 2. | <1. | <1. | 2. | 4.5 | 4.5 | 1.9 | .9 | 3.4 | .9 |
| 09/18/75 | 67. | 48. | 2. | 1. | <1. | 2.5 | 5. | 3. | 2. | 1.1 | 3.5 | .8 |

DIAMOND LAKE
CENTER STATION, SURFACE

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | 65. | 15. | 2.5 | <1. | 2. | 2. | 6.5 | 4. | 2.4 | .95 | 3.45 | 1. |
| 05/20/76 | 320. | 31. | 2.1 | 1. | 1.5 | 1. | 6. | 6. | 2.6 | 1.2 | 3.2 | .9 |
| 06/30/76 | 36. | 50. | <1. | <1. | <1. | 2.5 | 6.3 | 5.3 | 2.5 | 1. | 2.4 | 1. |
| 07/21/76 | 168. | 6. | 3. | <2. | <5. | <5. | 41. | <5. | 2. | <1. | 3.2 | <.1 |
| 08/18/76 | 255. | 22. | 9. | 2. | .3 | <5. | 33. | <5. | 2.5 | 1. | 3. | <.1 |
| 09/15/76 | 300. | 33. | 10. | <5. | 10. | <5. | 19. | 17. | 3. | 1.7 | 3.3 | <.1 |
| 10/14/76 | 62. | --- | 2. | --- | <5. | --- | <5. | --- | 1.8 | 1.1 | 3.3 | <.1 |
| 04/28/77 | <5. | 25. | 3. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/02/77 | 52. | --- | 2. | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/30/77 | 38. | 23. | 2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 07/20/77 | 33. | 17. | <2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 08/18/77 | 38. | 35. | <2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/27/77 | 52. | 35. | 2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/27/77 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

DIAMOND LAKE
CENTER STATION, SURFACE

| | Temp °C | DO mg/l | pH | Eh mv | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 6.6 | 11.9 | 9.8 | --- | 59.2 | 33. | --- | 4. | 2. | 46. |
| 07/07/71 | 16.4 | 7.8 | 7.8 | --- | 31.5 | 19. | --- | <1. | <1. | 33. |
| 08/03/71 | 21.5 | 7.9 | 8.6 | --- | 31.4 | 17. | --- | <1. | --- | 37. |
| 09/01/71 | 17.1 | 7.4 | 8.5 | --- | 35.8 | 17. | --- | 4. | 1. | 44. |
| 09/27/71 | 13.2 | 8.5 | 8.8 | --- | 33.1 | 23. | --- | 2. | 2. | 40. |
| 02/02/72 | 0.4 | 10.8 | --- | --- | 32.3 | 17. | --- | 1.5 | 1. | 27. |
| 05/24/72 | 4.0 | 9.9 | 6.6 | --- | 35.2 | 15.3 | 13. | 3.2 | 2. | 42. |
| 06/27/72 | 17.0 | 8.5 | 6.9 | --- | 32.3 | 15. | 9. | <1. | --- | 50. |
| 07/24/72 | 19.6 | 8.2 | 9.0 | --- | 25.4 | 15. | 12. | 1. | 1. | 39. |
| 08/22/72 | 18.1 | 8.6 | 8.0 | --- | 37.6 | 15. | 8.5 | <1. | <1. | 32. |
| 09/25/72 | 12.7 | 8.1 | 8.9 | --- | 38.0 | 16.8 | 22. | 3. | 3. | 26. |
| 05/23/73 | 13.8 | 9.2 | 7.7 | --- | 41.8 | 16.6 | 9. | 4.5 | 3.5 | 34. |
| 06/18/73 | 14.5 | 8.5 | 7.7 | --- | 43.6 | 17.4 | 9.5 | 7. | 2. | 43. |
| 07/10/73 | 18.8 | 8.0 | 8.7 | --- | 35.8 | 16.5 | 12. | 1. | <1. | 50. |
| 08/14/73 | 21.6 | 7.8 | 8.8 | --- | 47.1 | 17.9 | 10. | 2. | 2. | 40. |
| 09/11/73 | 17.1 | 9.5 | 8.7 | --- | 48.7 | 18.4 | 11. | 3. | <1. | 40. |
| 10/18/73 | 11.1 | 9.8 | 9.0 | --- | 34.6 | 20. | 17. | 5. | 2. | 30. |
| 06/05/74 | 11.1 | 9.8 | 7.1 | --- | 29.3 | 15.2 | 8. | 4.5 | 2. | 32.5 |
| 07/10/74 | 16.0 | 8.1 | 7.6 | --- | 30.9 | --- | 8. | 3.5 | 3. | 29. |
| 08/07/74 | 20.6 | 8.5 | 9.0 | --- | 32.7 | 27.7 | 13. | <1. | <1. | 28. |
| 09/11/74 | 17.7 | 7.0 | 8.0 | --- | 36.2 | 18. | 9. | <1. | 1. | 37. |
| 09/15/74 | --- | --- | --- | --- | --- | 19. | 10. | 4. | 4.5 | 55. |
| 10/09/74 | --- | --- | 8.5 | --- | 34.3 | 14. | 10. | 3. | 3. | 45. |
| 12/04/74 | --- | 10.5 | 7.4 | --- | 33.9 | 16. | 9. | 2. | 2. | 30. |
| 03/03/75 | --- | 11.0 | 7.2 | --- | --- | 17.8 | 10. | --- | --- | --- |
| 06/05/75 | 6.5 | 9.4 | 6.1 | 554 | 39.5 | 18.3 | 10. | 4.5 | 2. | 40. |
| 07/09/75 | 16.5 | 9.4 | 7.7 | 540 | 34.8 | 17.4 | 11. | <1. | <1. | 35. |
| 08/13/75 | 19.1 | 8.9 | 7.9 | 502 | 36.5 | 17.0 | 9. | 2. | 1.5 | 22. |
| 09/18/75 | 16.9 | 7.7 | 8.8 | 269 | 36.5 | 17.0 | 10. | 3. | 1. | 37. |

DIAMOND LAKE
CENTER STATION, SURFACE

| | Temp °C | DO mg/l | pH | Eh mv | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | 9.5 | 9.6 | 9.3 | 360 | 36.1 | 18.8 | 10. | 9. | 5. | 39 |
| 05/20/76 | 4.7 | 13.7 | 6.8 | 488 | --- | 16.4 | 9. | 4. | <1. | 27. |
| 06/30/76 | 15.9 | 10.3 | 7.7 | 562 | 33.1 | 16.2 | 13. | <1. | 5. | 32.5 |
| 07/21/76 | 18.6 | 9.6 | 8.4 | 491 | 34.7 | 17.6 | 10. | 4. | <1. | 73. |
| 08/18/76 | 15.6 | 8.7 | 7.4 | 542 | 45.0 | 17.5 | 9. | <1. | --- | 30. |
| 09/15/76 | --- | --- | --- | --- | 35.4 | 18.1 | 10. | --- | --- | 37. |
| 10/14/76 | --- | --- | --- | --- | --- | 18.6 | 10. | --- | --- | 54. |
| 04/28/77 | 7.5 | 11.6 | 8.0 | --- | 37.7 | 19.4 | --- | --- | --- | --- |
| 06/02/77 | 11.6 | 9.0 | 7.4 | --- | 37.6 | 19.3 | --- | --- | --- | --- |
| 06/30/77 | 18.8 | 8.5 | 8.3 | --- | 39.0 | 19.1 | --- | --- | --- | --- |
| 07/20/77 | 19.0 | 8.6 | 8.6 | --- | 40.1 | 19.2 | --- | --- | --- | --- |
| 08/18/77 | 21.0 | 8.9 | 9.4 | 508 | 41.8 | 19.3 | --- | --- | --- | --- |
| 09/27/77 | 12.8 | 8.5 | 7.5 | 558 | 39.8 | 19.7 | --- | --- | --- | --- |
| 10/27/77 | 9.8 | 8.8 | 8.5 | --- | 38.7 | 18.6 | --- | --- | --- | --- |

DIAMOND LAKE
CENTER STATION, 5 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .054 | --- | .016 | <.001 | .7 | .002 | 5. | 2. | 15.0 |
| 07/07/71 | .024 | --- | .012 | .019 | .7 | <.005 | 4. | 2. | 9.1 |
| 08/03/71 | .0192 | --- | .032 | .004 | .4 | <.001 | 3. | 3. | 9.8 |
| 09/01/71 | .0395 | --- | .018 | .005 | .6 | <.001 | 1. | 2. | 11.0 |
| 09/27/71 | .138 | .132 | .012 | .011 | .8 | .008 | 5.0 | 3. | 18.0 |
| 02/02/72 | .013 | --- | .011 | .078 | .3 | .005 | --- | 5. | 4.45 |
| 05/24/72 | .042 | .012 | --- | <.001 | .4 | <.001 | 3. | 2.7 | 6.3 |
| 06/27/72 | .048 | .011 | --- | .007 | .5 | <.001 | 3. | 4.0 | 6.8 |
| 07/24/72 | .025 | .008 | --- | .01 | .5 | .003 | 3. | 4. | 7.43 |
| 08/22/72 | --- | .026 | --- | .008 | .4 | .003 | 1. | 5. | 6.7 |
| 09/25/72 | .045 | .035 | --- | .006 | .3 | .001 | 2. | 4. | 2. |
| 05/23/73 | .02 | .01 | --- | .008 | .16 | --- | 3. | --- | 6.7 |
| 06/18/73 | .02 | .005 | --- | .003 | .21 | .061 | 2.2 | --- | 6.2 |
| 07/10/73 | .02 | .01 | --- | .013 | .23 | .025 | 2.5 | --- | 5.6 |
| 08/14/73 | .03 | .01 | .016 | .036 | .35 | .661 | 2.8 | --- | 5.8 |
| 09/11/73 | .04 | .02 | --- | .005 | .34 | .006 | 3.4 | --- | 5.2 |
| 10/18/73 | .015 | .01 | --- | .021 | .34 | .067 | 4.1 | 2. | 1.39 |
| 06/05/74 | .035 | .015 | --- | --- | .2 | --- | 2. | <1. | 4.8 |
| 07/10/74 | <.005 | .015 | --- | --- | .2 | --- | 2.9 | <1. | 4.4 |
| 08/07/74 | .005 | <.005 | --- | --- | .3 | --- | 3.4 | <1. | 4.5 |
| 09/11/74 | .03 | .01 | --- | --- | .3 | --- | 2.9 | 2.9 | 4.8 |
| 09/15/74 | --- | --- | --- | --- | --- | --- | 2.7 | 2.6 | --- |
| 10/09/74 | .04 | --- | --- | --- | .4 | --- | 4. | <1. | 4.62 |
| 12/04/74 | .05 | .01 | .006 | --- | 1.7 | --- | 3.8 | 1.7 | 1.26 |
| 03/03/75 | --- | .01 | .01 | --- | --- | --- | --- | --- | 2. |
| 06/05/75 | .04 | <.01 | <.005 | <.005 | .3 | .005 | 2.9 | <1. | 1.26 |
| 07/09/75 | .028 | .02 | .005 | <.005 | .3 | .005 | 2.4 | <1. | 4.5 |
| 08/13/75 | .01 | <.01 | <.005 | <.005 | .3 | .005 | 3.1 | <1. | 4. |
| 09/18/75 | .04 | .03 | .01 | .02 | .35 | .005 | 2.7 | <1. | 4. |

DIAMOND LAKE
CENTER STATION, 5 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | .05 | .02 | <.005 | .01 | .4 | .005 | 3.4 | <1. | .44 |
| 05/20/76 | .02 | <.01 | .005 | .01 | .25 | <.005 | 2.5 | 1.6 | --- |
| 06/30/76 | .06 | <.01 | .007 | .008 | .1 | .008 | 2.3 | <1. | 11. |
| 07/21/76 | .03 | .01 | .008 | <.005 | .2 | <.005 | 2.6 | <1. | 14.3 |
| 08/18/76 | .035 | .03 | .015 | .075 | .4 | .005 | 3. | <1. | 9.8 |
| 09/15/76 | .05 | --- | .011 | .02 | .28 | .005 | 2.9 | <1. | 5. |
| 10/14/76 | .03 | --- | --- | --- | .35 | --- | 4.2 | <1. | --- |
| 04/28/77 | .06 | --- | .006 | .01 | .39 | <.005 | 3.1 | <1. | 4.9 |
| 06/02/77 | .06 | .02 | .01 | .006 | .35 | <.005 | 2.8 | 2. | 4.6 |
| 06/30/77 | .02 | .01 | <.005 | .008 | .02 | <.005 | 2.7 | <1. | 4.8 |
| 07/20/77 | .055 | .0125 | <.005 | .0205 | .327 | <.005 | 3.4 | <1. | 2.02 |
| 08/18/77 | .0275 | .011 | <.005 | .01 | .444 | <.005 | 3.4 | 1. | 2.35 |
| 09/27/77 | .0545 | .0395 | .02 | .099 | .482 | .012 | 3.6 | 1. | 2.51 |
| 10/27/77 | .0415 | .0295 | .01 | .0305 | .405 | <.005 | 3.6 | 1. | <.1 |

DIAMOND LAKE
CENTER STATION, 5 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 145. | --- | 10. | --- | 3. | --- | 19. | 2. | .9 | 3. | 1. |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | .8 | 2.7 | 1. |
| 08/03/71 | --- | 42. | --- | 1. | --- | 2. | --- | 10. | 2.1 | 1. | 2.9 | .9 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1.1 | 2.8 | .9 |
| 09/27/71 | --- | 92. | --- | 3. | --- | .8 | --- | 2.5 | 1.7 | .9 | 3. | 1. |
| 02/02/72 | --- | 42. | --- | 2. | --- | .6 | --- | 4. | 3.8 | 1.2 | 4.1 | 1. |
| 05/24/72 | 68. | 24. | 5. | 2. | 1. | 1. | 7.5 | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 84. | 38. | 2. | --- | <1. | --- | 3. | --- | 1.9 | 1. | 2.9 | 1. |
| 07/24/72 | 36. | 20. | 1. | <1. | 4. | 2. | 70. | 2. | 2. | 1. | 3. | .8 |
| 08/22/72 | 125. | --- | 2. | 1. | 2. | --- | 4. | --- | 2.2 | .9 | 2.9 | .85 |
| 09/25/72 | 61. | --- | 2. | 2. | 3. | 3. | 4. | 3. | 2.1 | 1. | 3.2 | 1. |
| 05/23/73 | 72. | 27. | 1. | <1. | <1. | <1. | 4. | 10. | 2.2 | 1. | 3.1 | 1.1 |
| 06/18/73 | 22. | 11. | 1. | <1. | <1. | <1. | 1. | 4. | 2.2 | 1. | 3.2 | 1. |
| 07/10/73 | 23. | 17. | 2. | 1. | 1. | 2. | 1. | --- | 2.5 | 1.1 | 3.4 | 1.1 |
| 08/14/73 | 33. | 34. | 1. | <1. | 1. | 1. | 2. | --- | 2.1 | 1.1 | 3.7 | 1. |
| 09/11/73 | 67. | --- | 2. | 1. | 2. | 1. | 5. | --- | 2.1 | 1.1 | 3.2 | 1. |
| 10/18/73 | 62. | 35. | 2. | 1. | 2. | 2. | 3. | --- | 1.9 | 1. | 3.2 | .8 |
| 06/05/74 | 110. | 57. | 2. | <1. | 1. | 2. | 2. | 7. | 1.8 | .9 | 3.2 | .9 |
| 07/10/74 | 38. | 31. | 2. | 2. | 1. | 3. | 1. | 3. | 1.4 | 1. | 3. | .9 |
| 08/07/74 | 30. | 22. | 2. | 1. | 2. | 3. | 1. | 6. | 1.7 | .8 | 3.1 | .8 |
| 09/11/74 | 78. | 52. | 4.4 | 3.4 | 2.5 | 3. | 3.3 | 3.3 | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .65 |
| 10/09/74 | 65. | 48. | 3. | 2. | 31. | 32. | 12. | --- | --- | --- | --- | .89 |
| 12/04/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2. | --- |
| 03/03/75 | 37. | 38. | 2. | <1. | 4. | 5. | 4. | 4. | --- | --- | --- | --- |
| 06/05/75 | --- | 50. | --- | <10. | --- | <3. | --- | 4. | 1.8 | 1. | 3.7 | 1.1 |
| 07/09/75 | 42. | 18. | 2. | <1. | 2. | 2.5 | 5. | 8.5 | 1.5 | .9 | 3.5 | 1. |
| 08/13/75 | 34. | 29. | 2.5 | 1.5 | <1. | 1. | 3. | 4. | 1.8 | .9 | 3.4 | .9 |

DIAMOND LAKE
CENTER STATION, 5 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/18/75 | 77. | 35. | 2. | 1. | <1. | 3. | 1.5 | 2.5 | 2. | 1.1 | 3.5 | 1. |
| 10/22/75 | 53. | 20. | 1.5 | <1. | 1.5 | 2. | 2.5 | 2. | 2. | .9 | 3.4 | 1. |
| 05/20/76 | 70. | 35. | 2.8 | 1. | <1. | <1. | 4. | 4. | 2.3 | 1.2 | 3.3 | .9 |
| 06/30/76 | 25. | 20. | <1. | <1. | <1. | <1. | <1. | <1. | 2.2 | .9 | 2.4 | 1. |
| 07/21/76 | 129. | <5. | 3. | <2. | 7. | <5. | 38. | <5. | 2. | <1. | 3.2 | <.1 |
| 08/18/76 | 138. | 35. | 6. | 2. | 166. | <5. | 14. | <5. | 2.3 | 1. | 3. | <.1 |
| 09/15/76 | 200. | 54. | 10. | <5. | 10. | <5 | 23. | <5. | 2.5 | 1.6 | 3.3 | <.1 |
| 10/14/76 | 61. | --- | 2. | --- | <5. | --- | <5. | --- | 2. | 1. | 3.3 | <.1 |
| 04/28/77 | 89. | 28. | <2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/02/77 | 43. | --- | <2. | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/30/77 | 35. | 21. | <2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 07/20/77 | 32. | 17. | <2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 08/18/77 | 36. | 29. | <2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/27/77 | 52. | 34. | 2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/27/77 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

DIAMOND LAKE
CENTER STATION, 5 METERS

| | Temp °C | DO mg/l | pH | Eh mv | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 6.0 | 11.8 | 9.7 | --- | 60.8 | 17. | --- | 3. | 1. | 16. |
| 07/07/71 | 16.3 | 7.2 | 7.4 | --- | 31.1 | 18. | --- | 2. | 1. | 34. |
| 08/03/71 | 21.5 | 8.0 | 8.7 | --- | 30.7 | 16. | --- | <1. | --- | 36. |
| 09/01/71 | 17.3 | 7.4 | 8.5 | --- | 32.5 | 17. | --- | <1. | <1. | 30. |
| 09/27/71 | 13.1 | 8.6 | 8.7 | --- | 33.0 | 20. | --- | 2. | 2. | 39. |
| 02/02/72 | 1.0 | 8.9 | --- | --- | 34.0 | 18. | --- | 1. | 1. | 22. |
| 05/24/72 | 7.9 | 9.7 | 6.8 | --- | 34.0 | 15.6 | 9. | 3.2 | 2.8 | 35. |
| 06/27/72 | 16.3 | 8.3 | 7.4 | --- | 32.7 | 15.5 | 9. | 1. | 2. | 45. |
| 07/24/72 | 19.4 | 8.1 | 9.1 | --- | 25.0 | 14.5 | 12. | 1. | 1. | 44. |
| 08/22/72 | 17.5 | 8.4 | 7.3 | --- | 37.9 | 14.5 | 8.5 | <1. | <1. | 16. |
| 09/25/72 | 12.7 | --- | --- | --- | 36.7 | 16.8 | 24. | 3. | 3. | 30. |
| 05/23/73 | 13.5 | 9.2 | 7.8 | --- | 41.4 | 16.3 | 8. | 3. | 3. | 37. |
| 06/18/73 | 13.5 | 8.6 | 8.3 | --- | 42.4 | 17.4 | 10. | 8. | 4. | 41. |
| 07/10/73 | 18.4 | 9.0 | 8.8 | --- | 35.6 | 16.8 | 11.5 | 4. | 4. | 61. |
| 08/14/73 | 20.4 | 7.9 | 9.1 | --- | 43.6 | 17.9 | 11. | <1. | <1. | 39.5 |
| 09/11/73 | 16.7 | 9.2 | 9.0 | --- | 44.5 | 17.5 | 11. | 4. | 1. | 40. |
| 10/18/73 | 11.1 | 9.7 | 9.0 | --- | 34.6 | 21. | 17. | 5. | 2. | 28. |
| 06/05/74 | 10.2 | 10.1 | 7.0 | --- | 30.1 | 15.7 | 9. | 4. | 2. | 37. |
| 07/10/74 | 16.0 | 8.1 | 7.6 | --- | 30.9 | --- | 9. | 1. | 2. | 24.5 |
| 08/07/74 | 20.6 | 8.5 | 9.1 | --- | 32.4 | 27.7 | 15. | <1. | <1. | 27. |
| 09/11/74 | 17.5 | 7.0 | --- | --- | --- | 18. | 9. | <1. | 1. | 41. |
| 09/15/74 | --- | --- | --- | --- | --- | 19. | 9. | 5. | 5. | 43.5 |
| 10/09/74 | --- | --- | 8.5 | --- | 35.3 | 18. | --- | 3. | 3. | 41. |
| 12/04/74 | --- | 10.5 | 7.6 | --- | 32.4 | 19. | 9. | 1. | 1. | 32. |
| 03/03/75 | --- | 9.8 | 7.0 | --- | --- | 20.2 | 10. | --- | --- | --- |
| 06/05/75 | 4.4 | 10.5 | 6.7 | 524 | --- | --- | 10. | 5. | 3. | 34. |
| 07/09/75 | 15.8 | 8.5 | 7.9 | 523 | 35.5 | 19.7 | 10. | <1. | <1. | 36. |
| 08/13/75 | 19.0 | 8.8 | 8.1 | 489 | 36.5 | 18.6 | 10. | 1. | 1. | 19.5 |
| 09/18/75 | 16.9 | 7.5 | 8.7 | 256 | 36.3 | 17.2 | 10. | 3. | 1. | 34. |

DIAMOND LAKE
CENTER STATION, 5 METERS

| | Temp °C | DO mg/l | pH | Eh mv | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | 9.7 | 9.3 | 9.0 | 411 | 36.6 | 18.6 | 9. | 8. | 4. | 16. |
| 05/20/76 | 4.5 | 9.2 | 6.7 | 512 | --- | 17.0 | 9. | 3. | <1. | 25. |
| 06/30/76 | 15.9 | 9.3 | 8.3 | 565 | 32.4 | 16.4 | 10. | <1. | 9. | 28.5 |
| 07/21/76 | 18.7 | 8.8 | 8.3 | 512 | 34.7 | 17.5 | 9. | <1. | <1. | 47. |
| 08/18/76 | 16.2 | 7.6 | 7.9 | 525 | 44.4 | 18.2 | 13. | <1. | --- | 26. |
| 09/15/76 | --- | --- | --- | --- | 35.4 | 18.5 | 10. | --- | --- | 35. |
| 10/14/76 | --- | --- | --- | --- | --- | 18.4 | 15. | --- | --- | 45. |
| 04/28/77 | 7.0 | 12.7 | 8.0 | --- | 37.8 | 19.6 | --- | --- | --- | --- |
| 06/02/77 | 11.3 | 9.0 | 7.4 | --- | --- | 19.9 | --- | --- | --- | --- |
| 06/30/77 | 18.6 | 8.4 | 8.3 | --- | 38.0 | 20.7 | --- | --- | --- | --- |
| 07/20/77 | 19.1 | 8.4 | 8.9 | --- | 39.4 | 19.6 | --- | --- | --- | --- |
| 08/18/77 | 21.0 | 8.7 | 9.4 | 496 | 42.7 | 20.7 | --- | --- | --- | --- |
| 09/27/77 | 12.9 | 8.4 | 7.7 | 538 | 39.8 | 21.2 | --- | --- | --- | --- |
| 10/27/77 | 10.2 | 8.8 | 8.1 | --- | 38.6 | 19.2 | --- | --- | --- | --- |

DIAMOND LAKE
CENTER STATION, 10 METERS

| | TP mg/l | DP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .046 | --- | .014 | <.001 | .7 | .001 | 4. | 2. | 15.0 |
| 07/07/71 | .086 | --- | .061 | .026 | .5 | .015 | 2. | 4. | 14.7 |
| 08/03/71 | .162 | --- | .143 | .058 | .5 | .002 | 3. | 5. | 10.6 |
| 09/01/71 | .035 | --- | .017 | .042 | .7 | <.001 | 1. | 2. | 11.0 |
| 09/27/71 | .125 | .125 | .012 | .01 | .7 | .007 | 0.0 | 3. | 18.0 |
| 02/02/72 | .08 | --- | .076 | .315 | .6 | .016 | --- | 7. | 8.6 |
| 05/24/72 | .048 | .015 | --- | <.0025 | .4 | <.001 | 3. | 2.3 | 6.3 |
| 06/27/72 | .066 | .055 | --- | .012 | .4 | .002 | 3. | 4.0 | 6.7 |
| 07/24/72 | .069 | .044 | --- | .013 | .5 | .005 | 2. | 5. | 7.03 |
| 08/22/72 | .038 | .029 | --- | .004 | .3 | .002 | 1. | 6. | 7.1 |
| 09/25/72 | .048 | .033 | --- | .006 | .2 | .002 | 2. | 5. | 2.1 |
| 05/23/73 | .025 | .01 | --- | .013 | .23 | --- | 2. | --- | 6.6 |
| 06/18/73 | .02 | .005 | --- | .001 | .21 | .089 | 2.1 | --- | 6.2 |
| 07/10/73 | .03 | .01 | --- | .014 | .32 | .041 | 3.8 | --- | 5.6 |
| 08/14/73 | .035 | .025 | .017 | .046 | .2 | .127 | 2.7 | --- | 6. |
| 09/11/73 | .045 | .025 | --- | .015 | .33 | .013 | 3.3 | --- | 5.3 |
| 10/18/73 | .015 | .015 | --- | .01 | .31 | .018 | --- | 2. | 1.38 |
| 06/05/74 | .05 | .01 | --- | --- | .3 | --- | 3. | <1. | 4.9 |
| 07/10/74 | .015 | .015 | --- | --- | .2 | --- | 2.6 | 1. | 4.3 |
| 08/07/74 | .02 | .015 | --- | --- | .2 | --- | 3.5 | 1. | 4.1 |
| 09/11/74 | .035 | .02 | --- | --- | .3 | --- | 2.7 | 3.1 | 4.8 |
| 09/15/74 | --- | --- | --- | --- | --- | --- | 2.8 | 2.8 | --- |
| 10/09/74 | .05 | --- | --- | --- | .4 | --- | 4. | <1. | 4.62 |
| 12/04/74 | .02 | .01 | --- | --- | .2 | --- | 3. | 1.8 | 1.26 |
| 03/03/75 | --- | .05 | .045 | --- | --- | --- | --- | --- | 7.3 |
| 06/05/75 | .09 | .03 | .03 | .125 | .55 | .005 | 2.6 | 1.2 | 1.56 |
| 07/09/75 | .035 | .02 | .01 | <.005 | .35 | .005 | 2.7 | <1. | 4.5 |
| 08/13/75 | .02 | <.01 | <.005 | <.005 | .25 | .005 | 2.3 | <1. | 3.6 |
| 09/18/75 | .035 | .03 | .015 | .025 | .375 | .005 | 2.7 | <1. | 4. |

DIAMOND LAKE
CENTER STATION, 10 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | .05 | .02 | <.005 | <.005 | .4 | .005 | 3.6 | <1. | .44 |
| 05/20/76 | .02 | <.01 | .005 | .01 | .3 | <.005 | 2.2 | 1.1 | --- |
| 06/30/76 | .035 | .016 | .016 | .01 | .2 | <.005 | 2.4 | <1. | 10. |
| 07/21/76 | .05 | .02 | .017 | .005 | .2 | <.005 | 2.7 | <1. | 13.8 |
| 08/18/76 | .035 | .03 | .015 | .07 | .4 | .005 | 3.1 | <1. | 8.7 |
| 09/15/76 | .02 | --- | .011 | .016 | .28 | .005 | 3.2 | <1. | 4.1 |
| 10/14/76 | .03 | --- | --- | --- | .38 | --- | 3.9 | <1. | --- |
| 04/28/77 | .06 | --- | .006 | .009 | .38 | <.005 | 3.1 | <1. | 4.7 |
| 06/02/77 | .03 | .02 | .01 | .012 | .3 | <.005 | 2.7 | 1. | 4.5 |
| 06/30/77 | .09 | .07 | .043 | .017 | .1 | <.005 | 3.1 | --- | 6. |
| 07/20/77 | .0685 | .0495 | <.005 | .0255 | .288 | <.005 | 3.4 | 1. | 2.41 |
| 08/18/77 | .105 | .0745 | 065 | .106 | .434 | <.005 | 3.3 | 1. | 3.49 |
| 09/27/77 | .052 | .0325 | .019 | .1 | .477 | .012 | 3.5 | 1. | 2.51 |
| 10/27/77 | .054 | .023 | .01 | .0305 | .417 | <.005 | 3.7 | 1. | <.1 |

DIAMOND LAKE
CENTER STATION, 10 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 125. | --- | 60. | --- | 3. | --- | 21. | 2.1 | .8 | 3. | 1. |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.2 | 2.6 | 1. |
| 08/03/71 | --- | 200. | --- | 11. | --- | 1. | --- | 4. | 2.7 | 1. | 2.5 | .88 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 2.8 | 1.1 |
| 09/27/71 | --- | 76. | --- | 3. | --- | .4 | --- | 2.5 | 1.7 | .9 | 3. | 1. |
| 02/02/72 | --- | 160. | --- | 11. | --- | .6 | --- | 4. | 4.7 | 1.3 | 3.8 | 1.3 |
| 05/24/72 | 68. | 26. | 5. | 2. | 1. | 1. | 5.5 | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 66. | --- | 5. | --- | 1. | --- | 5. | --- | 1.8 | .9 | 2.8 | 1. |
| 07/24/72 | 72. | 28. | 4. | 2. | 4. | 3. | 3. | 4. | 2.4 | 1. | 3. | 1. |
| 08/22/72 | 140. | 125. | 2. | 1. | 3. | 3. | 10. | --- | 2.3 | 1. | 2.9 | .9 |
| 09/25/72 | 140. | 61. | 3. | 2. | 3. | --- | 3. | --- | 2.1 | 1. | 3.1 | 1. |
| 05/23/73 | 72. | 32. | 2. | <1. | <1. | <1. | 3. | 3. | 2.2 | 1. | 3.2 | 1.1 |
| 06/18/73 | 26. | 34. | 1. | <1. | <1. | <1. | 2. | 3. | 2.2 | 1. | 3.2 | 1. |
| 07/10/73 | 31. | --- | 2. | 1. | 2. | 3. | 2. | 5. | 2.7 | 1.2 | 3.2 | 1. |
| 08/14/73 | 43. | --- | 2. | 1. | 1. | 2. | 2. | 2. | 2.4 | 1. | 3.6 | 1. |
| 09/11/73 | 68. | 60. | 3. | 1. | 1. | 1. | 3. | --- | 2.2 | 1. | 3.3 | 1. |
| 10/18/73 | 60. | 57. | 1. | 1. | 2. | 2. | 2. | --- | 1.9 | 1. | 3.3 | .8 |
| 06/05/74 | 130. | 73. | 3. | <1. | 2. | 2. | 2. | 8. | 1.9 | 1. | 3.4 | .9 |
| 07/10/74 | 75. | 46. | 4. | 4. | 1. | 4. | 3. | 6. | 1.6 | 1. | 3. | .9 |
| 08/07/74 | 48. | 61. | 11. | 2. | 2. | 4. | 1. | 9. | 2.2 | 1. | 3.1 | .9 |
| 09/11/74 | 88. | 50. | 5.3 | 3.4 | 3. | 3.5 | 4.8 | 2.8 | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .7 |
| 10/09/74 | 71. | 47. | 3. | 2. | 33. | 40. | 12. | --- | --- | --- | --- | .9 |
| 12/04/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | --- |
| 03/03/75 | 161. | 112 | 10. | 9. | 3. | 4. | 4. | 4. | --- | --- | --- | --- |
| 06/05/75 | --- | 63. | --- | <10. | --- | <3. | --- | <3. | 1.9 | 1.1 | 3.9 | 1.3 |
| 07/09/75 | 45. | 25. | 2. | 2. | <1. | 3. | 2. | 6. | 1.8 | 1. | 3.5 | 1.1 |
| 08/13/75 | 59. | --- | 3. | --- | <1. | --- | 6. | --- | 2. | .9 | 3.4 | .9 |
| 09/18/75 | 72. | 37. | 1.5 | 1. | 1.5 | 1.5 | 2. | 4. | 2.1 | 1. | 3.5 | 1. |

DIAMOND LAKE
CENTER STATION, 10 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | 43. | 18. | 1.5 | <1. | 2. | 2. | 3.5 | 3.5 | 2. | .8 | 3.4 | 1. |
| 05/20/76 | 270. | 43. | 3. | 2. | <1. | 1. | 2. | 2. | 2.4 | 1.1 | 3.2 | .9 |
| 06/30/76 | 30. | 24. | 1. | <1. | <1. | 1.5 | <1. | <1. | 2.3 | 1. | 2.4 | 1. |
| 07/21/76 | 614. | 6. | 17. | <2. | 11. | <5. | 29. | <5. | 2.1 | <1. | 3.3 | <.1 |
| 08/18/76 | 149. | 28. | 6. | <2. | 102. | <5. | 15. | <5. | 2.1 | 1. | 3. | <.1 |
| 09/15/76 | 300. | 33. | 10. | <5. | 10. | <5. | 18. | <5. | 2.7 | 1.6 | 3.3 | <.1 |
| 10/14/76 | 61. | --- | 2. | --- | <5. | --- | <5. | --- | 2.1 | 1.1 | 3.3 | <.1 |
| 04/28/77 | 93. | 26. | 3. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/02/77 | 43. | --- | <2. | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/30/77 | 64. | 35. | 5. | 4. | --- | --- | --- | --- | --- | --- | --- | --- |
| 07/20/77 | 62. | 29. | 3. | 3. | --- | --- | --- | --- | --- | --- | --- | --- |
| 08/18/77 | 90. | 46. | 2. | 3. | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/27/77 | 52. | 36. | 2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/27/77 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

DIAMOND LAKE
CENTER STATION, 10 METERS

| | Temp °C | DO mg/l | pH | Eh mv | p.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 5.8 | 11.1 | 9.6 | --- | 56.1 | 17. | --- | 2.5 | 1. | 20. |
| 07/07/71 | 9.0 | 1.2 | 6.6 | --- | 33.4 | 18. | --- | 1. | <1. | 24. |
| 08/03/71 | 12.5 | 3.6 | 6.9 | --- | 35.1 | 18. | --- | <1. | --- | 31. |
| 09/01/71 | 17.3 | 7.7 | 8.5 | --- | 32.5 | 18. | --- | <1. | <1. | 28. |
| 09/27/71 | 13.0 | 8.5 | 8.8 | --- | 33.0 | 21. | --- | 3. | 3. | 34. |
| 02/02/72 | 2.1 | 1.5 | --- | --- | 41.7 | 22. | --- | 2. | 1. | 45. |
| 05/24/72 | 7.6 | 9.6 | 6.7 | --- | 33.7 | 15.6 | 11. | 2. | .8 | 40. |
| 06/27/72 | 13.4 | 7.5 | 6.4 | --- | 33.6 | 15.5 | 9. | <1. | 1. | 46. |
| 07/24/72 | 17.6 | 7.3 | 7.3 | --- | 25.5 | 16. | 13. | <1. | <1. | 31. |
| 08/22/72 | 17.2 | 8.0 | 7.1 | --- | 37.9 | 15. | 9.5 | 2. | 2. | 21. |
| 09/25/72 | 12.7 | 8.0 | 9.0 | --- | 37.2 | 16.8 | 13. | 2. | 2. | 4. |
| 05/23/73 | 8.5 | 9.5 | 7.4 | --- | 41.6 | 16.3 | 9. | 3. | 3. | 39. |
| 06/18/73 | 13.5 | 8.8 | 8.2 | --- | 43.8 | 17.4 | 9.5 | 8. | 2. | 42. |
| 07/10/73 | 17.2 | 9.3 | 8.7 | --- | 35.4 | 16.5 | 12. | 3. | 3. | 48. |
| 08/14/73 | 19.8 | 7.0 | 8.7 | --- | 40.7 | 17.1 | 11. | 1. | 1. | 39. |
| 09/11/73 | 16.2 | 7.8 | 8.8 | --- | 42.5 | 19. | 10. | 3. | <1. | 41. |
| 10/18/73 | 11.1 | 9.7 | 9.0 | --- | 33.3 | 21. | 23. | 5. | 1. | 34. |
| 06/05/74 | 7.3 | 10.3 | 6.9 | --- | 29.0 | 15.9 | 9. | 4. | 3. | 37. |
| 07/10/74 | 12.2 | 7.7 | 6.3 | --- | 29.7 | --- | 10. | 3. | 4. | 26. |
| 08/07/74 | 17.0 | 7.2 | 7.1 | --- | 31.3 | 27.7 | 10. | <1. | <1. | 24. |
| 09/11/74 | 17.0 | --- | 9.1 | --- | 35.1 | 18. | 9. | 3. | 2. | 43. |
| 09/15/74 | --- | --- | --- | --- | --- | 19. | 10. | 4. | 4. | 43. |
| 10/09/74 | --- | 10.5 | 8.5 | --- | 35.6 | 19. | 10. | 1. | 1. | 41. |
| 12/04/74 | --- | 10.5 | 7.3 | --- | 31.9 | 19. | 9. | 1. | 1. | 30. |
| 03/03/75 | --- | 4.5 | 6.6 | --- | --- | 20.0 | 12. | --- | --- | --- |
| 06/05/75 | 3.6 | 8.9 | 6.6 | 543 | --- | 22.8 | 13. | 5. | 2. | 42. |
| 07/09/75 | 11.8 | 8.0 | 7.4 | 543 | 36.3 | 17.9 | 13. | <1. | <1. | 40. |
| 08/13/75 | 14.2 | 6.4 | 6.6 | 539 | 36.2 | 17.7 | 9. | 2. | 1. | 20. |
| 09/18/75 | 16.9 | 7.4 | 8.6 | 281 | 36.5 | 17.4 | 9. | 3. | 2. | 31. |

DIAMOND LAKE
CENTER STATION, 10 METERS

| | Temp °C | DO mg/l | pH | Eh mv | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | 9.6 | 9.2 | 8.9 | 380 | 35.6 | 18.5 | 9. | 10. | 8 | 24. |
| 05/20/76 | 4.5 | 9.0 | 6.6 | 536 | --- | 17.2 | 9. | 3. | <1. | 14. |
| 06/30/76 | 13.8 | 9.3 | 7.6 | 589 | 32.9 | 15.2 | 10. | 4. | <1. | 47. |
| 07/21/76 | 17.3 | 7.5 | 7.3 | 551 | 33.6 | 17.6 | 10. | 1. | <1. | 13. |
| 08/18/76 | 16.1 | 7.5 | 7.8 | 531 | 44.3 | 18.2 | 10. | <1. | --- | 36. |
| 09/15/76 | --- | --- | --- | --- | 36.0 | 18.6 | 10. | --- | --- | 32.5 |
| 10/14/76 | --- | --- | --- | --- | --- | 18.2 | 10. | --- | --- | 50. |
| 04/28/77 | 5.2 | 11.6 | 7.5 | --- | 37.2 | 19.7 | --- | --- | --- | --- |
| 06/02/77 | 11.0 | 9.0 | 7.4 | --- | 37.3 | 19.1 | --- | --- | --- | --- |
| 06/30/77 | 14.1 | 6.4 | 7.1 | --- | 38.8 | 20.7 | --- | --- | --- | --- |
| 07/20/77 | 16.1 | 4.3 | 7.0 | --- | 39.7 | 19.6 | --- | --- | --- | --- |
| 08/18/77 | 19.2 | 2.8 | 6.8 | 561 | 42.4 | 20.6 | --- | --- | --- | --- |
| 09/27/77 | 12.9 | 8.3 | 7.7 | 542 | 40.2 | 19.9 | --- | --- | --- | --- |
| 10/27/77 | 10.1 | 8.8 | 8.5 | --- | 38.3 | 18.2 | --- | --- | --- | --- |

DIAMOND LAKE
CENTER STATION, 13 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .054 | --- | .014 | .039 | .8 | .004 | 5. | 2. | 15.4 |
| 07/07/71 | .096 | --- | .061 | .0235 | .6 | <.005 | 4. | 5. | 14.0 |
| 08/03/71 | .25 | --- | .231 | .17 | .7 | .003 | 4. | 5. | 12.1 |
| 09/01/71 | .336 | --- | .267 | .31 | .9 | <.001 | 1. | 5. | 12.2 |
| 09/27/71 | .132 | .132 | .011 | .0145 | .6 | .008 | 4.0 | 3. | 18.0 |
| 02/02/72 | .2 | --- | .198 | .5 | .8 | .006 | --- | 8. | 10. |
| 05/24/72 | .06 | .041 | --- | .001 | .6 | <.001 | 3. | 3.2 | 6.55 |
| 06/27/72 | .084 | .069 | --- | .075 | .6 | .011 | 3. | 5.0 | 6.6 |
| 07/24/72 | .189 | .154 | --- | .0255 | .5 | .005 | 2. | 9. | 7.15 |
| 08/22/72 | .255 | .18 | --- | .47 | .9 | .001 | 1. | 5. | 7.8 |
| 09/25/72 | .05 | .035 | --- | .008 | .3 | .002 | 2. | 4. | 3.1 |
| 05/23/73 | .03 | .01 | --- | .012 | .21 | --- | 2. | --- | 6.6 |
| 06/18/73 | .08 | .05 | --- | .113 | .42 | .029 | 2. | --- | 7.5 |
| 07/10/73 | .07 | .05 | --- | .014 | .34 | .191 | 2.9 | --- | 6.4 |
| 08/14/73 | .14 | .115 | .105 | .168 | .34 | .042 | 2.4 | --- | 7.3 |
| 09/11/73 | .065 | .04 | --- | .09 | .42 | .017 | 3.3 | --- | 5.8 |
| 10/18/73 | .015 | .01 | --- | .074 | .3 | .038 | 4.1 | 1.6 | 1.4 |
| 06/05/74 | .055 | .015 | --- | --- | .4 | --- | 3. | <1. | 5. |
| 07/10/74 | .06 | .065 | --- | --- | .4 | --- | 2.4 | 1. | 5.1 |
| 08/07/74 | .12 | .06 | --- | --- | .3 | --- | 3.5 | 2. | 4.3 |
| 09/11/74 | .113 | .084 | --- | --- | .5 | --- | --- | --- | 5.8 |
| 09/15/74 | --- | --- | --- | --- | --- | --- | 2.5 | 2.4 | --- |
| 10/09/74 | .045 | --- | --- | --- | .4 | --- | 5. | <1. | 4.6 |
| 12/04/74 | .02 | .01 | --- | --- | .2 | --- | 1.8 | 2.2 | 1.26 |
| 03/03/75 | --- | .17 | .165 | --- | --- | --- | --- | --- | 8. |
| 06/05/75 | .22 | .135 | .135 | .51 | .75 | .005 | 1.2 | 2.3 | 1.92 |
| 07/09/75 | .041 | .05 | .02 | .015 | <.05 | .005 | 1.1 | 2.7 | 5.3 |
| 08/13/75 | .16 | .11 | .11 | .035 | .35 | .005 | <1. | 2.9 | 5.2 |
| 09/18/75 | .03 | .03 | .015 | .035 | .35 | .005 | <1. | 2.6 | 4.1 |

DIAMOND LAKE
CENTER STATION, 13 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | .08 | .01 | <.005 | <.005 | .6 | .005 | <1. | 3.5 | .44 |
| 05/20/76 | .07 | .01 | .01 | <.005 | .45 | <.005 | 1.1 | 3. | --- |
| 06/30/76 | .05 | .05 | .03 | .028 | .3 | <.005 | <1. | 3.2 | 10.3 |
| 07/21/76 | .145 | .1 | .096 | .125 | .35 | <.005 | <1. | 2.4 | 13.9 |
| 08/18/76 | .045 | .03 | .025 | .11 | .42 | .005 | <1. | 2.6 | 8.6 |
| 09/15/76 | .03 | --- | .01 | .011 | .28 | .005 | <1. | 3.7 | 5.3 |
| 10/14/76 | .03 | --- | --- | --- | .35 | --- | <1. | 4.1 | --- |
| 04/28/77 | .06 | --- | .006 | .022 | .37 | <.005 | <1. | 2.4 | 5.1 |
| 06/02/77 | .04 | .03 | .015 | .019 | .34 | .007 | 1. | 2.7 | 4.5 |
| 06/30/77 | .1 | .09 | .066 | .064 | .1 | <.005 | <1. | 2.6 | 7.7 |
| 07/20/77 | .141 | .115 | .108 | .116 | .428 | <.005 | 1. | 2.9 | 3.87 |
| 08/18/77 | .457 | .262 | .262 | .364 | .677 | <.005 | 2. | 2.6 | 5.01 |
| 09/27/77 | .0565 | .039 | .02 | .097 | .506 | .012 | 1. | 3.5 | 2.5 |
| 10/27/77 | .041 | .023 | .009 | .033 | .402 | <.005 | 1. | 3.6 | <.1 |

DIAMOND LAKE
CENTER STATION, 13 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 130. | --- | 4. | --- | 2. | --- | 7. | 2.1 | 1. | 3. | 1. |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | .9 | 2.8 | 1.1 |
| 08/03/71 | --- | 475. | --- | 16. | --- | 3. | --- | 8. | 2.9 | 1. | 2.8 | .92 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 3.1 | 1.1 | 2.3 | 1.1 |
| 09/27/71 | --- | 84. | --- | 2.4 | --- | .8 | --- | 5.7 | 1.7 | .9 | 3. | .9 |
| 02/02/72 | --- | 425. | --- | 19. | --- | .6 | --- | 4. | 4.7 | 1.5 | 3.7 | 1.3 |
| 05/24/72 | 78. | 26. | 6. | 3. | 1. | 1. | 5. | --- | 2.2 | .9 | 2.9 | .9 |
| 06/27/72 | 60. | --- | 7. | --- | 1. | --- | 3. | --- | 2.1 | 1. | 2.8 | .9 |
| 07/24/72 | 145. | 52. | 12. | 11. | 4. | 2. | 3. | --- | 2.9 | 1.1 | 3. | .9 |
| 08/22/72 | 575. | 200. | 15. | 18. | 2. | --- | 7. | --- | 2.7 | .9 | 2.9 | .9 |
| 09/25/72 | 59. | 59. | 2. | 2. | 3. | 3. | 3. | --- | 2.1 | 1. | 3.1 | .9 |
| 05/23/73 | 74. | 27. | 2. | 1. | <1. | <1. | 3. | 3. | 2.1 | 1. | 3.2 | 1. |
| 06/18/73 | 73. | 20. | 9. | 9. | <1. | 1. | 2. | 5. | 2.4 | 1. | 3.1 | 1.2 |
| 07/10/73 | 51. | 35. | 10. | 6. | 2. | 2. | 3. | --- | 2.9 | 1.2 | 3.3 | 1.1 |
| 08/14/73 | 160. | 26. | 8. | 3. | 1. | 2. | 9. | 11. | 2.9 | 1.1 | 3.4 | 1.1 |
| 09/11/73 | 84. | 46. | 4. | 3. | 2. | 1. | 5. | --- | 2.2 | 1.1 | 3.3 | 1. |
| 10/18/73 | 58. | 35. | 3. | 1. | 2. | 2. | 2. | --- | 1.9 | .9 | 3.2 | .8 |
| 06/05/74 | 170. | 89. | 4. | <1. | 1. | 2. | 2. | 3. | 2. | 1. | 3.4 | 1. |
| 07/10/74 | 120. | 64. | 9. | 9. | 1. | 2. | 5. | 8. | 1.7 | 1. | 3. | 1. |
| 08/07/74 | 140. | 29. | 12. | 7. | 2. | 3. | 2. | 5. | 2.1 | 1. | 3.3 | 1. |
| 09/11/74 | 210. | 92. | 9. | 7.3 | 3. | 3.5 | 3.3 | 3.8 | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .71 |
| 10/09/74 | 68. | 56. | 3. | 3. | 32. | 41. | 12. | --- | --- | --- | --- | .87 |
| 12/04/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.05 | --- |
| 03/03/75 | 850. | 380. | 28. | 27. | 3. | 6. | 3. | 6. | --- | --- | --- | --- |
| 06/05/75 | --- | 191. | --- | <10. | --- | <3. | --- | 6. | 2.4 | 1.3 | 4. | 1.4 |
| 07/09/75 | 57. | 27. | 5. | 4. | <1. | 3.5 | 3. | 5. | 1.8 | 1. | 3.6 | 1.1 |
| 08/13/75 | 269 | 102. | 18.5 | 16. | 1. | 1. | 9. | 12. | 2.5 | 1. | 3.4 | 1. |
| 09/18/75 | 81. | 36. | 2. | 1. | <1. | 2.5 | 2.5 | 2. | 1.8 | 1. | 3.5 | 1.1 |

DIAMOND LAKE
CENTER STATION, 13 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | 58. | 13. | 2. | <1. | 3. | 2. | 4. | 3.5 | 2.1 | .8 | 3.4 | 1. |
| 05/20/76 | 210. | 45. | 4.3 | 2. | <1. | 1. | 2. | 5. | 2.3 | 1.3 | 3.2 | .9 |
| 06/30/76 | 50. | 35. | 2. | 2. | <1. | 1. | <1. | 3.3 | 2.5 | 1. | 2.3 | 1.1 |
| 07/21/76 | 150. | --- | 3. | --- | <5. | --- | 9. | --- | 2.4 | <1. | 3.2 | <.1 |
| 08/18/76 | 136. | 42. | 8. | 2. | 44. | <5. | 7. | <5. | 2. | .9 | 3. | <.1 |
| 09/15/76 | 200. | 42. | 10. | <5. | 10. | <5. | 17. | 9. | 3. | 1.7 | 3.3 | <.1 |
| 10/14/76 | 61. | --- | 2. | --- | <5. | --- | <5. | --- | 2. | 1.1 | 3.3 | <.1 |
| 04/28/77 | --- | 95. | <2. | 3. | <5. | --- | --- | --- | --- | --- | --- | --- |
| 06/02/77 | --- | 44. | --- | 2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/30/77 | 39. | 80. | 5. | 6. | <5. | --- | <5. | --- | --- | --- | --- | --- |
| 07/20/77 | 56. | 71. | 7. | 8. | --- | --- | --- | --- | --- | --- | --- | --- |
| 08/18/77 | 761. | 35. | 11. | 12. | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/27/77 | 52. | 36. | 2. | <2. | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/27/77 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

DIAMOND LAKE
CENTER STATION, 13 METERS

| | Temp °C | DO mg/l | pH | Eh mv | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 5.3 | 9.9 | 9.6 | --- | 61.1 | 18. | --- | 2.5 | 1. | 6. |
| 07/07/71 | 7.6 | 1.9 | 6.7 | --- | 33.4 | 21. | --- | 6. | 1. | 42. |
| 08/03/71 | 10.6 | 0.7 | 6.7 | --- | 37.5 | 18. | --- | <1. | --- | 28. |
| 09/01/71 | 11.3 | 0.2 | 6.5 | --- | 41.7 | 23. | --- | 4. | 2. | 44. |
| 09/27/71 | 12.9 | 7.8 | 8.8 | --- | 33.0 | 20. | --- | 2. | 3. | 42. |
| 02/02/72 | 2.5 | 0.5 | --- | --- | 46.2 | 24. | --- | 2. | 1. | 45. |
| 05/24/72 | 7.5 | 5.3 | 6.5 | --- | 30.2 | 14.9 | 10. | 3.2 | 2. | 37. |
| 06/27/72 | 11.1 | 5.0 | 6.2 | --- | 35.2 | 15. | 9. | 1. | --- | 45. |
| 07/24/72 | 14.5 | 2.6 | 6.3 | --- | 26.1 | 14.5 | 11. | 2. | 2. | 42. |
| 08/22/72 | 16.7 | 7.6 | 5.5 | --- | 45.2 | 17. | 10. | 3. | 3. | 36. |
| 09/25/72 | 12.5 | 7.8 | 8.0 | --- | 36.4 | 16.8 | 21. | 1. | 1. | 56. |
| 05/23/73 | 7.9 | 9.2 | 7.1 | --- | 40.8 | 16.3 | 9. | 5. | 5. | 36. |
| 06/18/73 | 11.0 | 4.0 | 6.3 | --- | 47.9 | 18.5 | 10.5 | 7. | 1. | 42. |
| 07/10/73 | 14.6 | 5.4 | 6.8 | --- | 35.4 | 17.9 | 11. | 5. | 4. | 63. |
| 08/14/73 | 18.4 | 2.9 | 6.9 | --- | 40.7 | 19. | 11. | 2. | <1. | 42. |
| 09/11/73 | 16.0 | 6.0 | 7.6 | --- | 40.5 | 17.4 | 12. | 3. | <1. | 41. |
| 10/18/73 | --- | 9.4 | 9.1 | --- | --- | 21. | 19. | 5. | 1. | 32. |
| 06/05/74 | 6.4 | 8.6 | 6.8 | --- | 29.6 | 16.7 | 12. | 5. | 3. | 38. |
| 07/10/74 | 11.0 | 4.9 | 6.0 | --- | 29.3 | --- | 11. | 3. | 3. | 30. |
| 08/07/74 | 14.2 | 4.0 | 6.7 | --- | 33.2 | 30.7 | 14. | 1. | 1. | 26. |
| 09/11/74 | --- | --- | 7.1 | --- | 36.2 | 16.8 | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | 19. | 10. | 4. | 5. | 44. |
| 10/09/74 | --- | --- | 8.3 | --- | 35.3 | 19. | 10. | 1. | 1. | 40. |
| 12/04/74 | --- | 10.5 | 7.4 | --- | 32.7 | 19. | 9. | 1. | 1. | 15. |
| 03/03/75 | --- | 1.7 | 6.6 | --- | --- | 30.1 | 14. | --- | --- | --- |
| 06/05/75 | 3.6 | 2.6 | 6.4 | 508 | --- | 25.4 | 13. | 7. | 3. | 43. |
| 07/09/75 | 9.6 | 7.7 | 7.4 | 559 | 37.5 | 16.2 | 13. | <1. | <1. | 41. |
| 08/13/75 | 12.6 | 1.5 | 6.1 | 575 | 41.9 | 17.8 | 11. | 2. | <1. | 31. |
| 09/18/75 | 15.8 | 2.8 | 7.0 | 252 | 36.9 | 17.7 | 9. | 4. | 3. | 36. |

DIAMOND LAKE
CENTER STATION, 13 METERS

| | Temp °C | DO mg/l | pH | Eh mv | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | 9.5 | 9.1 | 8.9 | 416 | 35.6 | 18.6 | 9. | 10. | 6. | 24. |
| 05/20/76 | 4.4 | 8.3 | 6.7 | 539 | --- | 17.0 | 9. | 5. | <1. | 29. |
| 06/30/76 | 12.7 | 8.4 | 6.9 | 584 | 33.3 | 16.7 | 10. | 6. | 4. | 34. |
| 07/21/76 | 13.1 | 0.3 | 6.5 | 416 | 37.5 | 19.6 | 11. | <1. | <1. | 27. |
| 08/18/76 | 15.9 | 5.0 | 6.9 | 556 | 45.2 | 18.4 | 11. | <1. | --- | 30. |
| 09/05/76 | --- | --- | --- | --- | 35.4 | 18.7 | 10. | --- | --- | 33. |
| 10/14/76 | --- | --- | --- | --- | --- | 18.6 | 10. | --- | --- | 34. |
| 04/28/77 | 5.0 | 11.1 | 7.3 | --- | 37.8 | 19.9 | --- | --- | --- | --- |
| 06/02/77 | 10.8 | 8.7 | 7.3 | --- | 37.3 | 19.0 | --- | --- | --- | --- |
| 06/30/77 | 13.2 | 2.5 | 6.7 | --- | 40.6 | 20.4 | --- | --- | --- | --- |
| 07/20/77 | 14.9 | 1.7 | 6.7 | --- | 42.9 | 20.8 | --- | --- | --- | --- |
| 08/18/77 | 16.6 | 0.1 | 6.7 | 195 | 49.1 | 23.8 | --- | --- | --- | --- |
| 09/27/77 | 12.9 | 8.3 | 7.6 | 544 | 39.3 | 20.6 | --- | --- | --- | --- |
| 10/27/77 | 10.1 | 8.7 | 8.4 | --- | 38.5 | 18.7 | --- | --- | --- | --- |

DIAMOND LAKE
NORTH CENTER STATION, SURFACE

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .058 | --- | .014 | .002 | .8 | <.001 | --- | --- | 15.0 |
| 07/07/71 | .015 | --- | .007 | .002 | .5 | .005 | 2. | 3. | 8.9 |
| 08/03/71 | .02 | --- | .035 | .034 | .4 | .002 | 2. | 4. | 9.5 |
| 05/24/72 | .035 | .022 | --- | .004 | .4 | <.001 | 3. | 1.9 | 6.4 |
| 06/27/72 | .016 | .012 | --- | .006 | .4 | <.001 | 2. | 5.0 | 6.8 |
| 07/24/72 | .022 | .008 | --- | --- | .55 | .008 | 2. | 4. | 7.3 |
| 08/22/72 | .035 | .032 | --- | .023 | .4 | .003 | 2. | 4. | 6.9 |
| 09/25/72 | .044 | .035 | --- | .007 | .4 | .007 | 2. | 5. | 2.1 |

DIAMOND LAKE
NORTH CENTER STATION, SURFACE

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 190. | --- | 23. | --- | 6. | --- | 20. | 1.8 | .9 | 2.8 | 1. |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.7 | 1.4 |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.6 | .88 |
| 05/24/72 | 70. | 50. | 5. | 2. | 1. | 1. | 7.5 | 11.5 | 2.2 | .8 | 2.9 | .9 |
| 06/27/72 | 45. | --- | 2.5 | 2.5 | 2. | 2.5 | 7. | 16. | 2.05 | .9 | 2.9 | 1. |
| 07/24/72 | 34. | 34. | 1. | <1. | 2.5 | 2. | 1. | 1.5 | 1.9 | .9 | 3.1 | 1.1 |
| 08/22/72 | 175. | 150. | 3. | 1. | 4. | --- | 18.5 | 19. | 2.2 | 1. | 2.9 | .85 |
| 09/25/72 | 76. | 37. | 3. | 2. | 3. | 3. | 3. | --- | 2.1 | 1. | 3.15 | .95 |

DIAMOND LAKE
NORTH CENTER STATION, SURFACE

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 6.4 | 11.9 | 8.1 | 31.0 | 17. | --- | 2.5 | 1. | 30. |
| 07/07/71 | 16.7 | 7.0 | 8.3 | 31.6 | 17. | --- | 3. | 2. | 34. |
| 08/03/71 | 22.7 | 8.2 | 8.6 | 32.0 | 19. | --- | <1. | --- | 22. |
| 05/24/72 | 9.1 | 8.7 | 7.0 | 33.8 | 14.9 | 16. | 1. | 1.2 | 45. |
| 06/27/72 | 16.3 | 8.8 | 7.2 | 35.1 | 15.7 | 9.5 | 3. | 3. | 45. |
| 07/24/72 | 19.3 | 7.4 | 8.6 | 28.3 | 13.5 | 10. | 2.5 | <1.5 | 38. |
| 08/22/72 | 18.0 | 8.6 | 8.3 | 35.5 | 14.5 | 10.2 | 1. | 1. | 31. |
| 09/25/72 | 12.7 | --- | 8.8 | 34.8 | 16.8 | 15. | 1. | 1. | 4. |

DIAMOND LAKE
NORTH CENTER STATION, 5 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .17 | --- | .014 | <.001 | .8 | .003 | 3. | 4. | 15.0 |
| 07/07/71 | .019 | --- | .008 | .007 | .6 | <.005 | 2. | 4. | 9.1 |
| 08/03/71 | .0297 | --- | .035 | .007 | .3 | <.001 | 3. | 3. | 9.4 |
| 05/24/72 | .036 | .018 | --- | .005 | .4 | <.001 | 3. | <1. | 6.5 |
| 06/27/72 | .068 | .014 | --- | .008 | .6 | <.001 | 3. | 6.0 | 6.9 |
| 07/24/72 | .022 | .009 | --- | .016 | .5 | .012 | 2. | 4. | 7.33 |
| 08/22/72 | .044 | .026 | --- | .007 | .4 | .001 | 3. | 4. | 6.8 |
| 09/25/72 | .052 | .0325 | --- | .007 | .3 | .003 | 2. | 4. | 2.1 |

DIAMOND LAKE
NORTH CENTER STATION, 5 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 140. | --- | 51. | --- | 4. | --- | 12. | 2. | .9 | 2.8 | 1. |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .9 | 2.8 | 1.1 |
| 08/03/71 | ---- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.8 | .79 |
| 05/24/72 | 98. | 42. | 5. | 4. | 1. | --- | 20.5 | 15. | 2.1 | 1. | 2.9 | .9 |
| 06/27/72 | 50. | 48. | 2. | 2. | 2. | 1. | 15. | 11. | 2.2 | 1. | 2.8 | .9 |
| 07/24/72 | 30. | 25. | 1. | <1. | 3. | 2. | 1. | 1. | 2. | .9 | 3. | .9 |
| 08/22/72 | 125. | --- | 2. | 1. | 2. | --- | 3. | 10. | 2.1 | .9 | 2.9 | .9 |
| 09/25/72 | 59. | 41. | 3. | 2. | 3. | 3. | 3. | --- | 2.1 | 1. | 3.2 | 1. |

DIAMOND LAKE
NORTH CENTER STATION, 5 METERS

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 6.05 | 12.0 | 8.0 | 31.3 | 17. | --- | 2.5 | 1. | 31. |
| 07/07/71 | 15.7 | 2.3 | 8.3 | 31.1 | 17. | --- | 3. | 1. | 31. |
| 08/03/71 | 21.6 | 8.5 | 8.5 | 31.9 | 17. | --- | <1. | --- | 33. |
| 05/24/72 | 7.7 | 9.7 | 7.0 | 34.4 | 16.6 | 13. | 2.8 | 2.4 | 41. |
| 06/27/72 | 16.1 | 8.3 | 7.4 | 32.9 | 14.7 | 9. | 3. | --- | 46. |
| 07/24/72 | 19.1 | 8.6 | 8.9 | 26.2 | 13.5 | 10. | 1. | 1. | 41. |
| 08/22/72 | 17.5 | 8.7 | 7.0 | 37.6 | 14.5 | 9. | <1. | <1. | 28. |
| 09/25/72 | 12.7 | --- | 8.9 | 36.3 | 16.8 | 25. | 5. | 5. | 4. |

DIAMOND LAKE
NORTH CENTER STATION, 10 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .054 | --- | .016 | .0395 | .8 | .004 | 5. | 2. | 15.4 |
| 07/07/71 | .147 | --- | .062 | .05 | 1. | .010 | 4. | 4. | 13.0 |
| 08/03/71 | .0725 | --- | .063 | .0175 | .4 | .001 | 3. | 4. | 9.7 |
| 05/24/72 | .063 | .019 | --- | .003 | .6 | <.001 | 3. | 2. | 6.5 |
| 06/27/72 | .0365 | .024 | --- | .007 | .4 | <.001 | 2. | 5.0 | 6.8 |
| 07/24/72 | .032 | .023 | --- | .016 | .5 | .028 | 2. | 4. | 7.27 |
| 08/22/72 | .046 | .027 | --- | .005 | .5 | .001 | 1. | 5. | 6.72 |
| 09/25/72 | .048 | .034 | --- | .004 | .3 | .002 | 3. | 4. | 3.2 |

DIAMOND LAKE
NORTH CENTER STATION, 10 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 120. | --- | 66. | --- | 3. | --- | 21.5 | 2.2 | .8 | 3. | 1.2 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | 1. | 2.7 | 1.1 |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | 1. | 2.6 | .79 |
| 05/24/72 | 68. | 20. | 5. | 2. | 1. | 1. | 4.5 | --- | 2.2 | 1. | 2.9 | .9 |
| 06/27/72 | 30. | --- | 3. | --- | 2. | 1. | 4. | --- | 2.2 | .9 | 2.8 | .9 |
| 07/24/72 | 44. | 26. | 3. | <1. | 3. | 2. | 1. | <1. | 2. | .9 | 2.9 | .9 |
| 08/22/72 | 100. | --- | 2. | 1. | 2. | 2. | 4. | --- | 2.2 | .9 | 2.9 | .9 |
| 09/25/72 | 55. | 45. | 2. | 2. | 2. | 2. | 2. | --- | 2.1 | 1. | 3.2 | 1. |

DIAMOND LAKE
NORTH CENTER STATION, 10 METERS

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 5.20 | 10.0 | 7.4 | 31.8 | 18. | --- | 2.5 | 1. | 5. |
| 07/07/71 | 8.8 | 3.4 | 7.6 | 33.2 | 18. | --- | 27. | 8. | 50. |
| 08/03/71 | 12.5 | 7.0 | 7.2 | 32.2 | 17. | --- | <1. | --- | 35. |
| 05/24/72 | 7.2 | 7.6 | 6.8 | 34.3 | 14.9 | 15. | 2.4 | 1.6 | 42. |
| 06/27/72 | 13.2 | 8.2 | 6.2 | 33.3 | 15.2 | 8. | 4. | 2. | 39. |
| 07/24/72 | 17.5 | 8.0 | 7.2 | 26.2 | 14.5 | 10. | 1. | 1. | 37. |
| 08/22/72 | 17.2 | 7.8 | 6.7 | 36.7 | 15. | 9.5 | <1. | <1. | 25. |
| 09/25/72 | 12.7 | --- | 8.3 | 35.6 | 16.2 | 10. | 2. | 2. | 26. |

DIAMOND LAKE
SOUTH CENTER STATION, SURFACE

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .05 | --- | .013 | <.001 | .8 | .001 | --- | <1. | 14.7 |
| 07/07/71 | .02 | --- | .008 | .0075 | .5 | <.005 | 3. | 6. | 9.5 |
| 08/03/71 | .015 | --- | .036 | .005 | .3 | <.001 | 2. | 3. | 10.0 |
| 05/24/72 | .039 | .011 | --- | .004 | .4 | .002 | 3. | 2.2 | 6.3 |
| 06/27/72 | .02 | .017 | --- | <.001 | .3 | <.001 | 3. | 4.0 | 7.1 |
| 07/24/72 | .028 | .01 | --- | .012 | .7 | .005 | 1. | 5. | 7.5 |
| 08/22/72 | .035 | .023 | --- | .005 | .4 | <.001 | 1. | 5. | 7.5 |
| 09/25/72 | .044 | .033 | --- | .008 | .3 | .003 | 1. | 5. | 3.75 |

DIAMOND LAKE
SOUTH CENTER STATION, SURFACE

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 3. | 1. |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.8 | 1.9 |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1. | 2.6 | .86 |
| 05/24/72 | 70. | 22. | 5. | 3. | 1. | 1. | 3.5 | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 32. | 30. | 2. | 2. | 1. | --- | 3. | --- | 1.9 | 1. | 3. | .9 |
| 07/24/72 | 42. | 24. | 2. | <1. | 3. | 2. | 12. | 3. | 2. | 1. | 3.1 | .9 |
| 08/22/72 | 150. | 75. | 2. | <1. | 2. | 3. | 3. | --- | 2.1 | 1. | 2.9 | .9 |
| 09/25/72 | 64. | 43. | 2. | 1. | 3. | 2. | 3. | --- | 1.9 | 1. | 3.1 | .9 |

DIAMOND LAKE
SOUTH CENTER STATION, SURFACE

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 6.45 | 12.1 | 8.7 | 31.1 | 17. | --- | 3.5 | 1. | 17. |
| 07/07/71 | 17.2 | 8.1 | 7.2 | 30.8 | 18. | --- | 2. | 2. | 36. |
| 08/03/71 | 22.1 | 8.0 | 8.4 | 29.7 | 17. | --- | <1. | --- | 36. |
| 05/24/72 | 9.0 | 9.8 | 6.6 | 33.7 | 15.3 | 10. | 1.6 | .8 | 39. |
| 06/27/72 | 18.1 | 8.5 | 7.6 | 35.6 | 16.2 | 9. | 2. | 1. | 46. |
| 07/24/72 | 20.5 | 8.4 | 8.1 | 27.5 | 15. | 11. | <1. | <1. | 41. |
| 08/22/72 | 17.5 | 8.4 | 9.0 | 35.1 | 15.5 | 10. | <1. | <1. | 18. |
| 09/25/72 | 12.6 | 7.9 | 8.6 | 34.6 | 16.8 | 14. | 2. | 2. | 20. |

DIAMOND LAKE
SOUTH CENTER STATION, 5 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .05 | --- | .013 | <.001 | .8 | .001 | --- | <1. | 14.7 |
| 07/07/71 | .025 | --- | .013 | .005 | .5 | <.005 | 5. | 3. | 9.0 |
| 08/03/71 | .0175 | --- | .035 | .0085 | .3 | <.001 | 2. | 3. | 9.9 |
| 05/24/72 | .04 | .019 | --- | .001 | .4 | <.001 | 3. | 2.6 | 6.3 |
| 06/27/72 | .02 | .016 | --- | .002 | .4 | .001 | 2. | 4.0 | 6.9 |
| 07/24/72 | .024 | .009 | --- | .019 | .5 | .007 | 2. | 4. | 7.37 |
| 08/22/72 | .034 | .025 | --- | .002 | .45 | <.001 | 2. | 4. | 7.4 |
| 09/25/72 | .048 | .033 | --- | .012 | .25 | .002 | 2. | 4. | 3.9 |

DIAMOND LAKE
SOUTH CENTER STATION, 5 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .9 | 3. | .9 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | .9 | 2.8 | 1. |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | 1. | 2.7 | .79 |
| 05/24/72 | 60. | 32. | 4. | 2.5 | 1. | 1. | 2. | 6.5 | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 38. | 56. | 2. | 2. | 1. | 3. | 3. | 28.5 | 1.75 | .95 | 2.8 | .9 |
| 07/24/72 | 40. | 24.5 | 1. | <1. | 3.5 | 2. | 14. | 6. | 1.9 | .8 | 3. | .9 |
| 08/22/72 | 138. | 57.5 | 2. | <1. | 3. | 3. | 16. | 6. | 2.1 | 1. | 2.9 | .875 |
| 09/25/72 | 80.5 | 38. | 2. | 1.5 | 3. | 2. | 3. | --- | 2.1 | 1. | 3.1 | 1. |

DIAMOND LAKE
SOUTH CENTER STATION, 5 METERS

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 6.42 | 11.8 | 8.0 | 31.2 | 17. | --- | 3. | 1. | 32. |
| 07/07/71 | 16.5 | 8.1 | 8.0 | 30.6 | 20. | --- | 4. | 2. | 36. |
| 08/03/71 | 21.8 | 8.0 | 8.3 | 31.2 | 16. | --- | <1. | --- | 35. |
| 05/24/72 | 8.3 | 9.8 | 6.9 | 33.6 | 14.9 | 11. | 1.6 | 1.2 | 40. |
| 06/27/72 | 17.0 | 8.6 | 7.9 | 36.9 | 16.2 | 9.5 | 2. | --- | 46. |
| 07/24/72 | 19.4 | 8.6 | 7.7 | 27.7 | 14.5 | 9.5 | <1. | <1. | 35. |
| 08/22/72 | 17.4 | 8.6 | 8.3 | 38.0 | 15. | 9.25 | 1.5 | 1.5 | 30. |
| 09/25/72 | 12.5 | 8.1 | 8.8 | 34.7 | 16.8 | 18.5 | 2. | 2. | 36. |

DIAMOND LAKE
SOUTH CENTER STATION, 10 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 07/07/71 | .035 | --- | .015 | <.001 | .5 | <.005 | 3. | 3. | 9.4 |
| 08/03/71 | .14 | --- | .12 | .05 | .4 | .001 | 3. | 4. | 10.1 |
| 05/24/72 | .042 | .016 | --- | <.001 | .4 | <.001 | 3. | 2.7 | 6.35 |
| 06/27/72 | .035 | .023 | --- | .0025 | .35 | <.001 | 2. | 5.0 | 6.7 |
| 07/24/72 | .044 | .021 | --- | .0125 | .5 | .006 | 3. | 2. | 7.3 |
| 08/22/72 | .037 | .0225 | --- | .002 | .3 | <.001 | 1. | 5. | 6.6 |
| 09/25/72 | .048 | .034 | --- | .006 | .2 | .002 | 1. | 5. | 2.9 |

DIAMOND LAKE
SOUTH CENTER STATION, 10 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | .9 | 2.7 | 1. |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1. | 2.7 | .77 |
| 05/24/72 | 64. | 24. | 4. | 2. | 1. | 1. | 2. | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 42. | --- | 3. | 3. | 1. | 1. | 3. | --- | 1.8 | .9 | 2.9 | 1. |
| 07/24/72 | 38. | 25. | 1. | <1. | 4. | 2. | 4. | 3. | 2. | .9 | 3. | .8 |
| 08/22/72 | 125. | 90. | 2. | <1. | 2. | --- | 5. | 5. | 2.3 | 1. | 2.9 | .85 |
| 09/25/72 | 72. | 49. | 2. | 2. | 3. | 3. | 3. | 4. | 2. | 1. | 3.1 | 1. |

DIAMOND LAKE
SOUTH CENTER STATION, 10 METERS

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 6.4 | --- | --- | --- | --- | --- | --- | --- | --- |
| 07/07/71 | 10.7 | 7.9 | 7.4 | 31.2 | 20. | --- | 4. | 2. | 37. |
| 08/03/71 | 15.2 | 4.5 | 6.7 | 33.5 | 18. | --- | <1. | --- | 28. |
| 05/24/72 | 8.0 | 9.8 | 6.9 | 33.5 | 15.6 | 19. | 2.8 | 2.8 | 17. |
| 06/27/72 | 15.1 | 8.4 | 6.8 | 34.8 | 14.7 | 8. | 3. | --- | 50. |
| 07/24/72 | 18.6 | 7.6 | 7.4 | 25.4 | 15. | 9. | <1. | <1. | 42. |
| 08/22/72 | 17.2 | 8.2 | 8.1 | 38.0 | 14.5 | 9. | 2. | 2. | 4. |
| 09/25/72 | 12.1 | 8.2 | 8.8 | 36.5 | 16.8 | 12. | 1. | 1. | 24. |

DIAMOND LAKE
RESORT STATION, SURFACE

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .048 | --- | .017 | .0025 | .7 | .006 | --- | <1. | 15.2 |
| 07/07/71 | .019 | --- | .011 | .0045 | .5 | <.005 | 8. | 3. | 8.9 |
| 08/03/71 | .015 | --- | .031 | .002 | .3 | <.001 | 2. | 3. | 9.8 |
| 05/24/72 | .035 | .013 | --- | <.001 | .3 | <.001 | 3. | 2.7 | 6.3 |
| 06/27/72 | .017 | .014 | --- | .002 | .3 | <.001 | 2. | 5.0 | 6.7 |
| 07/24/72 | .021 | .01 | --- | .007 | .5 | .003 | 2. | 4. | 7.33 |
| 08/22/72 | .037 | .022 | --- | .003 | .3 | <.001 | 2. | 4. | 6.72 |
| 09/25/72 | .046 | .068 | --- | .0125 | .3 | .005 | 1. | 5. | 2.3 |
| 05/23/73 | .07 | .015 | --- | .024 | .17 | .022 | 3. | --- | 6.7 |
| 06/18/73 | .015 | .01 | --- | .008 | .23 | .007 | 2.2 | --- | 6.2 |
| 07/10/73 | .015 | .005 | --- | .012 | .25 | .021 | 2.2 | --- | 5.7 |
| 08/14/73 | <.025 | .01 | <.001 | .029 | .19 | .010 | 3. | --- | 5.8 |
| 09/11/73 | .035 | .015 | --- | .009 | .24 | .013 | 3.3 | --- | 5.2 |

DIAMOND LAKE
RESORT STATION, SURFACE

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 120. | --- | 4. | --- | 1. | --- | 5. | 2.1 | .9 | 3. | .9 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.8 | 1. |
| 08/03/71 | --- | 34. | --- | 1. | --- | 2. | --- | 1.5 | 1.9 | 1. | 2.6 | .79 |
| 05/24/72 | 72. | 22. | 4. | 2. | 1. | --- | 4. | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 44. | 24. | 2. | 2. | 1. | --- | 6. | --- | 2. | 1. | 2.9 | .9 |
| 07/24/72 | 40 | 22. | 1. | <1. | 2. | 2. | 4. | --- | 1.9 | .9 | 3. | .9 |
| 08/22/72 | 140. | 100. | 3. | 1. | 2. | 3. | 6. | --- | 2.2 | 1. | 2.9 | .85 |
| 09/25/72 | 55. | --- | 2. | 2. | 3. | 3. | 3. | --- | 2.3 | 1.7 | 4. | .9 |
| 05/23/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | 1. | 3.2 | 1. |
| 06/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .9 | 3.4 | 1.1 |
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | 1. | 3.3 | 1. |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 3.7 | 1. |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.1 | 3.3 | 1. |

DIAMOND LAKE
RESORT STATION, SURFACE

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 7.0 | --- | 8.0 | 31.3 | 17. | --- | 2.5 | 1.5 | 13. |
| 07/07/71 | 17.1 | 7.7 | 7.2 | 30.6 | 18. | --- | 4. | <1. | 33. |
| 08/03/71 | 22.6 | 8.0 | 8.4 | 31.2 | 18. | --- | <1. | --- | 22. |
| 05/24/72 | 8.6 | 9.9 | 7.1 | 33.8 | 15.3 | 10. | 1.2 | .8 | 19. |
| 06/27/72 | 18.5 | 9.2 | 7.5 | 34.4 | 16.2 | 10. | 8. | 7. | 45. |
| 07/24/72 | 20.0 | 8.1 | 8.8 | 25.4 | 14.5 | 9. | <1. | <1. | 47. |
| 08/22/72 | 17.9 | 8.6 | 8.3 | 35.3 | 15. | 9. | 1. | 1. | 17. |
| 09/25/72 | 12.4 | 7.8 | 8.6 | 36.3 | 16.8 | 14. | 3. | 3. | 64. |
| 05/23/73 | 13.8 | 9.0 | 7.9 | 41.4 | 17.4 | 10. | 3. | 3. | 33. |
| 06/18/73 | 16. | 8.7 | 7.7 | 45.3 | 17.1 | 10. | 6. | <1. | 40. |
| 07/10/73 | 18.3 | 8.6 | 8.7 | 36.2 | 16.8 | 11. | <1. | <1. | 49. |
| 08/14/73 | 20.4 | 7.9 | 9.0 | 45.8 | 15.2 | 10. | <1. | <1. | 37. |
| 09/11/73 | 17.0 | 9.2 | 8.7 | 48.7 | 17.9 | 10. | 3. | <1. | --- |

DIAMOND LAKE
RESORT STATION, 5 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .054 | --- | .015 | <.001 | .8 | .004 | --- | <1. | 15.0 |
| 07/07/71 | .019 | --- | .014 | .0035 | .6 | <.005 | 4. | 2. | 8.9 |
| 08/03/71 | .02 | --- | .036 | .0035 | .3 | <.001 | 3. | 3. | 9.7 |
| 05/24/72 | .042 | .017 | --- | <.001 | .5 | <.001 | 3. | 2.6 | 6.4 |
| 06/27/72 | .017 | .0135 | --- | .002 | .4 | <.001 | 2. | 5.0 | 6.85 |
| 07/24/72 | .022 | .009 | --- | .009 | .6 | .003 | 2. | 4. | 7.3 |
| 08/22/72 | .052 | .036 | --- | .012 | .4 | .003 | 1. | 6. | 7.56 |
| 09/25/72 | .044 | .034 | --- | .005 | .3 | .005 | 1. | 5. | 2.9 |
| 05/23/73 | .075 | .01 | --- | .017 | .56 | .022 | 2. | --- | 6.7 |
| 06/18/73 | .015 | .005 | --- | .001 | .205 | .007 | 2.2 | --- | 6.1 |
| 07/10/73 | .025 | .005 | --- | .012 | .3 | .007 | 3.6 | --- | 5.7 |
| 08/14/73 | .02 | .01 | .006 | .021 | .17 | .008 | 2.8 | --- | 5.8 |
| 09/11/73 | --- | .025 | --- | .008 | .3 | .013 | 3.5 | --- | 5.1 |

DIAMOND LAKE
RESORT STATION, 5 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 115. | --- | 3. | --- | 1. | --- | 6. | 2.2 | .9 | 3. | .9 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.7 | 1. |
| 08/03/71 | --- | 40. | --- | 2. | --- | 1. | --- | 5. | 2.3 | 1.4 | 3.3 | .88 |
| 05/24/72 | 62. | 24. | 4. | 3. | 1. | --- | 2. | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 40. | 34. | 2. | 1. | 1. | 1. | 3. | --- | 1.8 | 1. | 2.9 | 1. |
| 07/24/72 | 58. | 24. | 2. | <1. | 3. | 2. | 4. | 1. | 1.9 | .8 | 3. | .9 |
| 08/22/72 | 150. | 140. | 3. | 1. | 2. | --- | 3. | --- | 2.3 | 1. | 2.9 | .9 |
| 09/25/72 | 59. | 49. | 2. | 2. | 3. | 3. | 3. | --- | 2.3 | 1.7 | 3.9 | 1. |
| 05/23/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1. | 3.2 | 1. |
| 06/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | .9 | 3.1 | 1. |
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.1 | 3.3 | 1. |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | 1.1 | 3.6 | 1.1 |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.1 | 3.3 | 1. |

DIAMOND LAKE
RESORT STATION, 5 METERS

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 6.0 | 11.2 | 8.2 | 31.1 | 17. | --- | 8. | 1. | 16. |
| 07/07/71 | 17.0 | 7.9 | 7.5 | 30.6 | 17. | --- | 3. | <1. | 35. |
| 08/03/71 | 22.0 | 8.0 | 8.4 | 30.5 | 16. | --- | <1. | --- | 30. |
| 05/24/72 | 7.8 | 10.1 | 7.0 | 33.8 | 14.3 | 10. | 2.4 | 1.2 | 12. |
| 06/27/72 | 16.7 | 8.4 | 7.6 | 33.0 | 15.2 | 12. | 2. | 1. | 42. |
| 07/24/72 | 19.7 | 8.3 | 9.1 | 25.2 | 14.5 | 10. | <1. | <1. | 41. |
| 08/22/72 | 17.2 | 5.7 | 5.8 | 36.7 | 15. | 9. | 2. | 2. | 8. |
| 09/25/72 | 12.2 | 7.9 | 8.6 | 36.7 | 16.8 | 13. | 2. | 2. | 58. |
| 05/23/73 | 13.7 | 9.0 | 7.9 | 41.5 | 18.5 | 10. | 30. | 12. | 64. |
| 06/18/73 | 14. | 9.2 | 8.8 | 42.5 | 16.8 | 8.5 | 7. | 1. | 38. |
| 07/10/73 | 18.1 | 10.0 | 9.0 | 35.3 | 16.8 | 11. | 3. | 2. | 59. |
| 08/14/73 | 19.5 | 7.8 | 8.4 | 44.4 | 17.4 | 10. | 1. | <1. | 41. |
| 09/11/73 | 16.5 | 9.0 | 8.9 | 46.0 | 18.4 | 10. | 4. | 1. | 39. |

DIAMOND LAKE
SUMMER HOMES STATION, SURFACE

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .052 | --- | .016 | <.001 | .6 | .001 | 5. | 1. | 14.7 |
| 07/07/71 | .0255 | --- | .013 | .0015 | .3 | <.005 | 2. | 3. | 11.0 |
| 08/03/71 | .017 | --- | .0365 | .004 | .3 | .002 | 3. | 3. | 9.8 |
| 09/01/71 | .028 | --- | .0135 | .009 | .7 | .002 | 1. | 2. | 11.0 |
| 05/24/72 | .039 | .016 | --- | <.001 | .4 | <.001 | 3. | 2.3 | 6.2 |
| 06/27/72 | .028 | .0135 | --- | .001 | .4 | <.001 | 2. | 4.0 | 7.2 |
| 07/24/72 | .028 | .01 | --- | .016 | .7 | .006 | <1. | 4.5 | 7.33 |
| 08/22/72 | .147 | .028 | --- | .006 | .4 | <.001 | 1. | 5. | 6.2 |
| 09/25/72 | .042 | .034 | --- | .004 | .2 | .007 | 2. | 4. | 2.6 |
| 05/23/73 | .025 | .01 | --- | .0135 | .27 | .115 | 4. | --- | 6.65 |
| 06/18/73 | .015 | .005 | --- | .002 | .22 | .006 | 2.1 | --- | 6. |
| 07/10/73 | .015 | .005 | --- | .018 | .26 | .008 | 2.4 | --- | 5.7 |
| 08/14/73 | .02 | .01 | .003 | .018 | .2 | .036 | 2.9 | --- | 5.8 |
| 09/11/73 | .04 | .025 | --- | .006 | .3 | .029 | 3.4 | --- | 5.2 |

DIAMOND LAKE
SUMMER HOMES STATION, SURFACE

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 200. | --- | 104. | --- | 1. | --- | 6. | 2. | .9 | 3. | .9 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.7 | 1. |
| 08/03/71 | --- | 42. | --- | 2. | --- | 2. | --- | 1.5 | 2.1 | 1. | 2.7 | .88 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1.1 | 2.7 | 1. |
| 05/24/72 | 44. | 20. | 3. | 2. | 1. | 1. | 2.5 | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 36. | 36. | 3. | 2. | 1. | --- | 3. | --- | 1.8 | 1. | 2.9 | .9 |
| 07/24/72 | 44. | 24. | 2. | <1. | 4. | 2. | 4. | 3. | 1.9 | .9 | 3. | .8 |
| 08/22/72 | 125. | --- | 2. | 1. | 2. | --- | 3. | --- | 2.2 | 1. | 2.9 | .9 |
| 09/25/72 | 58. | --- | 2. | 2. | 3. | 3. | 3. | 3. | 2.1 | 1. | 3.2 | 1. |
| 05/23/73 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 3.3 | 1.1 |
| 06/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .9 | 3.2 | 1. |
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1.1 | 3.3 | 1. |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 3.7 | 1. |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.1 | 3.3 | 1. |

DIAMOND LAKE
SUMMER HOMES STATION, SURFACE

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 7.5 | 11.6 | 8.5 | 31.7 | 17. | --- | 3.5 | 2. | 26. |
| 07/07/71 | 17.4 | 7.9 | 7.1 | 30.7 | 17. | --- | 3. | 2. | 31. |
| 08/03/71 | 21.9 | 7.6 | 8.5 | 32.2 | 16. | --- | <1. | --- | 21. |
| 09/01/71 | 18.8 | 9.0 | 8.8 | 33.1 | 17. | --- | <1. | <1. | 30. |
| 05/24/72 | 9.2 | 9.5 | 6.8 | 34.2 | 14.6 | 12. | 2. | 1.6 | 13. |
| 06/27/72 | 18.3 | 8.6 | 8.4 | 28.3 | 15.7 | 10. | 19. | 9. | 66. |
| 07/24/72 | 20.0 | 8.6 | 8.4 | 26.4 | 14.5 | 9. | <1. | <1. | 39. |
| 08/22/72 | 17.7 | 8.5 | 8.8 | 38.7 | 14.5 | 9. | 3. | 3. | 14. |
| 09/25/72 | 12.9 | 7.8 | 8.6 | 35.6 | 16.8 | 18. | 3. | 2. | 26. |
| 05/23/73 | 13.1 | 9.5 | 7.9 | 43.5 | 15.7 | 10. | 5. | 3. | 31. |
| 06/18/73 | 16. | 8.9 | 8.4 | 43.8 | 16.8 | 9. | 7. | 2. | 36. |
| 07/10/73 | 19.5 | 8.9 | 8.6 | 36.1 | 16.8 | 11. | 3. | 3. | 60. |
| 08/14/73 | 20.3 | 8.1 | 9.1 | 45.8 | 17.4 | 10. | 1. | <1. | 38. |
| 09/11/73 | 16.3 | 9.2 | 9.2 | 48.4 | 17.9 | 12. | 3. | 1. | 40. |

DIAMOND LAKE
SUMMER HOMES STATION, 5 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .058 | --- | .027 | <.001 | .7 | <.001 | --- | <1. | 14.7 |
| 07/07/71 | .029 | --- | .014 | .002 | .4 | <.005 | 4. | 3. | 9.0 |
| 08/03/71 | .021 | --- | .037 | .003 | .4 | <.001 | 2. | 3. | 9.6 |
| 09/01/71 | .0385 | --- | .015 | .003 | .7 | .002 | 1. | 2. | --- |
| 05/24/72 | .041 | .0155 | --- | <.001 | .5 | <.001 | 3. | 3. | 6.35 |
| 06/27/72 | .018 | .013 | --- | .008 | .6 | .012 | 2. | 4.0 | 6.9 |
| 07/24/72 | .027 | .013 | --- | .0245 | .3 | .011 | 2. | 4. | 7.15 |
| 08/22/72 | .038 | .028 | --- | .005 | .4 | .002 | 1. | 6. | 4.9 |
| 09/25/72 | .042 | .032 | --- | .005 | .3 | .005 | 2. | 4. | 2.7 |
| 05/23/73 | .025 | .01 | --- | .014 | .19 | .025 | 2. | --- | 6.5 |
| 06/18/73 | .02 | .01 | --- | .001 | .27 | .008 | 2.5 | --- | 6.1 |
| 07/10/73 | .035 | .01 | --- | .011 | .36 | .010 | 4.5 | --- | 5.7 |
| 08/14/73 | <.025 | .01 | .001 | .0165 | .38 | .014 | 3.2 | --- | 5.7 |
| 09/11/73 | .075 | .025 | --- | .0025 | .7 | .014 | 5.2 | --- | 5.2 |

DIAMOND LAKE
SUMMER HOMES STATION, 5 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | 110. | --- | 3. | --- | 2. | --- | 3.5 | 2.1 | 1. | 3. | .9 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.7 | 1. |
| 08/03/71 | --- | 80. | --- | 3. | --- | 1. | --- | 5. | 1.9 | .9 | 2.7 | .88 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 2.9 | 1. |
| 05/24/72 | 46. | 22. | 3. | 2. | 1. | 1. | 4.5 | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 40. | --- | 2. | 1. | 1. | 1. | 5. | 5. | 2.1 | 1. | 3. | .9 |
| 07/24/72 | 54. | 26. | 2. | <1. | 2. | 2. | 4. | 4. | 1.9 | .9 | 3.3 | .8 |
| 08/22/72 | 75. | --- | 2. | 1. | 2. | --- | 12. | 8. | 2.1 | .9 | 2.9 | .8 |
| 09/25/72 | 58. | 45. | 2. | 2. | 2. | 3. | 2. | --- | 2.1 | 1. | 3.1 | 1. |
| 05/23/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1. | 3.3 | 1. |
| 06/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.8 | 1.1 | 3.2 | 1. |
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1.1 | 3.4 | .9 |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1.1 | 3.7 | 1.1 |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.1 | 3.5 | 1. |

DIAMOND LAKE
SUMMER HOMES STATION, 5 METERS

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 7.2 | 11.8 | 8.6 | 31.7 | 17. | --- | 3. | 1. | 30. |
| 07/07/71 | 14.2 | 7.9 | 7.8 | 31.8 | 18. | --- | 6. | 2. | 20. |
| 08/03/71 | 21.0 | 8.5 | 8.4 | 31.1 | 16. | --- | <1. | --- | 29. |
| 09/01/71 | 18.8 | 9.8 | 8.9 | 33.7 | 19. | --- | .5 | <1. | 34. |
| 05/24/72 | 8.9 | 9.4 | 7.0 | 34.2 | 15.9 | 15. | 1.2 | 1.2 | 12. |
| 06/27/72 | 16.9 | 8.5 | 8.0 | 28.1 | 16.2 | 9. | 3. | 2. | 44. |
| 07/24/72 | 19.1 | 8.5 | 8.0 | 27.0 | 14.5 | 9. | <1. | <1. | 39. |
| 08/22/72 | 17.5 | 9.0 | 5.7 | 38.9 | 14.5 | 9. | 2. | 2. | 16. |
| 09/25/72 | 12.2 | 8.2 | 8.8 | 36.3 | 16.8 | 12. | 4. | 2. | 36. |
| 05/23/73 | 10.5 | 9.9 | 9.8 | 42.1 | 14.9 | 10. | 6. | 5. | 44. |
| 06/18/73 | 15. | 9.5 | 8.6 | 43.9 | 17.4 | 9. | 17. | 6. | 44. |
| 07/10/73 | 18.5 | 10.1 | 9.1 | 36.2 | 16.8 | 11. | 10. | 3. | 81. |
| 08/14/73 | 19.8 | 8.1 | 8.5 | 45.1 | 17.6 | 10. | 4. | 2. | 40. |
| 09/11/73 | 16.5 | 9.2 | 9.3 | 46.0 | 18.4 | 11. | 22. | 6. | 59. |

DIAMOND LAKE
EAST SIDE CAMPGROUND STATION, SURFACE

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .052 | --- | .018 | <.001 | .6 | .001 | --- | --- | 15.4 |
| 07/07/71 | .02 | --- | .006 | .0095 | .4 | <.005 | 4. | 2. | 9.2 |
| 08/03/71 | .0205 | --- | .033 | .005 | 1.2 | .002 | 3. | 3. | 9.8 |
| 09/01/71 | .039 | --- | .016 | .0025 | .5 | .002 | 1. | 2. | 11.0 |
| 05/24/72 | .039 | .017 | --- | <.001 | .45 | <.001 | 3. | 2.6 | 6.2 |
| 06/27/72 | .016 | .012 | --- | .005 | .3 | .004 | 2. | 4.0 | 7.1 |
| 07/24/72 | .038 | --- | --- | .012 | .65 | .006 | 1. | 4. | 7.37 |
| 08/22/72 | .056 | .029 | --- | .004 | .35 | .002 | 1. | 5. | 7.1 |
| 09/25/72 | .044 | .031 | --- | .004 | .25 | .003 | 2. | 4. | 2.9 |
| 05/23/73 | .02 | .01 | --- | .008 | .29 | .029 | 2. | --- | 6.8 |
| 06/18/73 | .02 | .015 | --- | .002 | .24 | .009 | 2.2 | --- | 6.1 |
| 07/10/73 | .015 | .005 | --- | .015 | .21 | .008 | 2.4 | --- | 5.7 |
| 08/14/73 | --- | .045 | .03 | .023 | .215 | .032 | 2.8 | --- | 5.8 |
| 09/11/73 | .035 | .015 | --- | .001 | .3 | .015 | 3.4 | --- | 5.2 |

DIAMOND LAKE
EAST SIDE CAMPGROUND STATION, SURFACE

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | 1. | 3. | 1. |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.7 | 1. |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | 1. | 2.7 | .88 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 2.9 | 1. |
| 05/24/72 | 36. | 24. | 3. | 2. | 1. | --- | 3.5 | --- | 2.1 | .9 | 2.95 | .9 |
| 06/27/72 | 46. | 46. | 2. | 1. | 1. | 1. | 3. | 3. | 1.9 | .95 | 2.9 | .9 |
| 07/24/72 | 46. | 21. | 2. | 1. | 2.5 | 2. | 4. | 3.5 | 2. | .9 | 3. | .8 |
| 08/22/72 | 105. | --- | 2. | 2. | 2. | --- | 8. | --- | 2.2 | 1. | 3. | .825 |
| 09/25/72 | 69. | 43. | 2. | 2. | 3. | 2.5 | 4. | --- | 2.1 | 1. | 3.2 | 1. |
| 05/23/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1. | 3.3 | 1. |
| 06/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .9 | 3.4 | 1. |
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1.1 | 3. | 1.1 |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1.1 | 3.6 | 1. |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.1 | 3.5 | 1. |

DIAMOND LAKE
EAST SIDE CAMPGROUND STATION, SURFACE

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 8.0 | 11.6 | 8.5 | 30.9 | 17. | --- | 3. | 1. | 9. |
| 07/07/71 | 17.3 | 7.9 | 8.0 | 31.4 | 18. | --- | 3. | 2. | 31. |
| 08/03/71 | 22.5 | 8.5 | 8.4 | 31.6 | 18. | --- | <1. | --- | 22. |
| 09/01/71 | 16.8 | 8.1 | 9.3 | 32.3 | 17. | --- | <1. | <1. | 30. |
| 05/24/72 | 9.2 | 9.8 | 6.9 | 35.6 | 14.9 | 12. | 1.6 | 1.2 | 14. |
| 06/27/72 | 18.5 | 8.6 | 8.3 | 24.8 | 15.7 | 9.5 | 2. | --- | 43. |
| 07/24/72 | 20.3 | 8.5 | 8.8 | 26.5 | 14.5 | 10. | 1. | 1. | 45.5 |
| 08/22/72 | 17.5 | 7.9 | 8.8 | 36.6 | 14.5 | 9. | 2.5 | 3. | 33. |
| 09/25/72 | 12.5 | 8.2 | 8.8 | 36.1 | 17.4 | 12.5 | 1. | 1. | 34. |
| 05/23/73 | 14.3 | 9.3 | 7.8 | 43.9 | 16.3 | 10. | 2. | 2. | 38. |
| 06/18/73 | 16. | 9.0 | 7.7 | 44.5 | 16.8 | 9.5 | 7. | 3. | 47. |
| 07/10/73 | 19.0 | 9.3 | 8.6 | 35.8 | 16.8 | 11. | 1. | <1. | 54. |
| 08/14/73 | 20.3 | 8.0 | 9.2 | 41.4 | 17.9 | 11.5 | 1. | <1. | 39. |
| 09/11/73 | 16.8 | 9.2 | 8.8 | 46.8 | 17.4 | 10. | 4. | 1. | 42. |

DIAMOND LAKE

EAST SIDE CAMPGROUND STATION, 5 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .052 | --- | .022 | <.001 | .5 | .002 | 5. | 1. | 16.0 |
| 07/07/71 | .031 | --- | .015 | .001 | .4 | <.005 | 3. | 3. | 9.1 |
| 08/03/71 | .0205 | --- | .034 | .002 | .2 | .001 | 2. | 3. | 9.8 |
| 09/01/71 | .044 | --- | .0185 | <.001 | .5 | .002 | 1. | 2. | 11.2 |
| 05/24/72 | .037 | .018 | --- | .001 | .4 | <.001 | 3. | 2.7 | 6.4 |
| 06/27/72 | .0185 | .018 | --- | .007 | .3 | .002 | 2. | 4.0 | 6.95 |
| 07/24/72 | .021 | .013 | --- | .011 | .5 | .006 | 2. | 3. | 7.37 |
| 08/22/72 | .053 | .0255 | --- | .005 | .3 | .001 | 1. | 5. | 5.7 |
| 09/25/72 | .05 | .038 | --- | .021 | .4 | .005 | 1. | 6. | 3. |
| 05/23/73 | .055 | .01 | --- | .012 | .28 | .016 | 1. | --- | 6.5 |
| 06/18/73 | .015 | .01 | --- | .001 | .27 | .008 | 2.1 | --- | 6.5 |
| 07/10/73 | .045 | .01 | --- | .027 | .66 | .017 | 8. | --- | 5.9 |
| 08/14/73 | .04 | .015 | .003 | .029 | .22 | .023 | 3.1 | --- | 5.7 |
| 09/11/73 | .06 | .02 | --- | .002 | .405 | .016 | 4. | --- | 5. |

DIAMOND LAKE

EAST SIDE CAMPGROUND STATION, 5 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | 1. | 3. | .9 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.7 | 1.2 |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 2.9 | .84 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 2.9 | .9 |
| 05/24/72 | 40. | 34. | 3. | 2. | 1. | --- | 2. | --- | 2.1 | .9 | 2.8 | .9 |
| 06/27/72 | 34. | --- | 2. | 1. | 1. | 1. | 3. | --- | 2. | 1. | 2.9 | .9 |
| 07/24/72 | 40. | 22. | 1. | 1. | 2. | 2. | 1. | 6. | 2.4 | .9 | 3. | .8 |
| 08/22/72 | 140. | --- | 3. | <1. | 3. | 3. | 5. | --- | 2.1 | 1. | 2.9 | .9 |
| 09/25/72 | 87. | 47. | 3. | 2. | 3. | 3. | 3. | --- | 2.2 | 1. | 3.2 | .9 |
| 05/23/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1. | 3.3 | 1. |
| 06/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | .9 | 3.2 | 1. |
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 1.1 | 3.3 | 1.1 |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | 1.1 | 3.6 | 1.1 |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.1 | 3.4 | 1. |

DIAMOND LAKE

EAST SIDE CAMPGROUND STATION, 5 METERS

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 7.4 | 11.8 | 8.5 | 30.5 | 17. | --- | 3. | 1. | 23. |
| 07/07/71 | 13.7 | 7.6 | 7.8 | 31.5 | 17. | --- | 3. | <1. | 35. |
| 08/03/71 | 22.3 | 7.8 | 8.5 | 31.5 | 16. | --- | <1. | --- | 44. |
| 09/01/71 | 16.7 | 8.0 | --- | 32.4 | 17. | --- | <1. | <1. | 32. |
| 05/24/72 | 9.0 | 9.5 | 7.0 | 34.1 | 14.9 | 10. | 2.4 | 1.2 | 15. |
| 06/27/72 | 17.7 | 8.7 | 8.5 | 28.7 | 15.7 | 9. | 3. | 2. | 44. |
| 07/24/72 | 19.5 | 8.3 | 8.5 | 26.5 | 14.5 | 11. | <1. | <1. | 41. |
| 08/22/72 | 17.3 | 7.8 | 7.7 | 33.6 | 14.5 | 9. | 4. | 4. | 31. |
| 09/25/72 | 12.0 | 7.6 | 8.5 | 36.0 | 17.4 | 15. | 2. | 1. | 32. |
| 05/23/73 | 10.0 | 10.0 | 7.6 | 45.3 | 11.9 | 10. | 6. | 4.5 | 40. |
| 06/18/73 | 14.0 | 10.0 | --- | 44.5 | 16.3 | 10. | 6. | 2. | 50. |
| 07/10/73 | 18.6 | 9.5 | 9.1 | 36.2 | 16.8 | 12. | 9. | 5. | 61. |
| 08/14/73 | 20.3 | 7.9 | 9.3 | 42.5 | 17.9 | 9.5 | 1. | <1. | 38. |
| 09/11/73 | 16.4 | 9.3 | 8.9 | 46.0 | 17.9 | 10.5 | 3. | <1. | 41. |

DIAMOND LAKE
THIELSON VIEW STATION, SURFACE

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .056 | --- | .015 | .004 | .7 | <.001 | 6. | 1. | --- |
| 07/07/71 | .018 | --- | .009 | .003 | .4 | <.005 | 5. | 2. | 8.7 |
| 08/03/71 | .0155 | --- | .035 | .011 | .4 | <.001 | 2. | 3. | 9.7 |
| 09/01/71 | .0265 | --- | .014 | .003 | .6 | .002 | 2. | 2. | 10.8 |
| 05/24/72 | .0385 | .015 | --- | .001 | .4 | <.001 | 3. | 4.1 | 6.3 |
| 06/27/72 | .017 | .014 | --- | .016 | .3 | .008 | 2. | 5.0 | 6.5 |
| 07/24/72 | .023 | .012 | --- | .012 | .5 | .006 | 2. | 3. | 7.3 |
| 08/22/72 | .037 | .019 | --- | .0045 | .5 | .003 | 2. | 5. | 5.6 |
| 09/25/72 | .044 | .034 | --- | .003 | .3 | .007 | 2. | 4. | 3.5 |

DIAMOND LAKE
THIELSON VIEW STATION, SURFACE

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.7 | 1. |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1. | 2.4 | .79 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 2.5 | 1. |
| 05/24/72 | 72. | 30. | 4. | 5. | 1. | 1. | 3. | --- | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 30. | --- | 2. | 2. | 1. | --- | 2. | --- | 1.8 | 1. | 3.1 | .9 |
| 07/24/72 | 260. | 26. | 5. | <1. | 12. | 3. | 80. | 2. | 2. | .9 | 3. | .9 |
| 08/22/72 | 110. | 110. | 2. | 1. | 2. | --- | 4. | --- | 2.2 | 1. | 2.9 | .8 |
| 09/25/72 | 53. | 53. | 2. | 1. | 3. | 3. | 5. | --- | 2.3 | 1.7 | 4. | 1.1 |

DIAMOND LAKE
THIELSON VIEW STATION, SURFACE

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 5.95 | 11.6 | --- | --- | --- | --- | --- | --- | --- |
| 07/07/71 | 16.7 | 7.9 | 7.2 | 30.5 | 19. | --- | 3. | 1. | 28. |
| 08/03/71 | 21.8 | 8.0 | 8.4 | 31.2 | 18. | --- | <1. | --- | 23. |
| 09/01/71 | 19.1 | 8.4 | 8.9 | 32.0 | 18. | --- | <1. | <1. | 30. |
| 05/24/72 | 8.8 | 9.6 | 7.1 | 33.7 | 15.6 | 11. | 1.6 | 1.2 | 18. |
| 06/27/72 | 18.0 | 8.6 | 7.8 | 36.0 | 15.2 | 11. | 2. | 2. | 46. |
| 07/24/72 | 19.2 | 8.1 | 8.2 | 24.4 | 15. | 10. | 2. | 2. | 40. |
| 08/22/72 | 18.2 | 8.7 | 8.2 | 37.0 | 15. | 9.5 | 1. | 1. | 23. |
| 09/25/72 | 12.7 | 8.0 | 8.6 | 37.1 | 16.8 | 13. | 13. | 1. | 40. |

DIAMOND LAKE
THIELSON VIEW STATION, 6 METERS

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | .056 | --- | .014 | .013 | .9 | .005 | 6. | 1. | --- |
| 07/07/71 | .019 | --- | .016 | .0045 | .4 | <.005 | 3. | 2. | 8.8 |
| 08/03/71 | .019 | --- | .034 | .007 | .3 | <.001 | 3. | 3. | 9.7 |
| 09/01/71 | .029 | --- | .013 | .003 | .8 | .002 | 1. | 2. | 11.0 |
| 05/24/72 | .044 | .022 | --- | --- | .6 | <.001 | --- | 2.3 | 6.3 |
| 06/27/72 | .02 | .016 | --- | .002 | .4 | <.001 | 2. | 4.0 | 6.7 |
| 07/24/72 | .023 | .01 | --- | .01 | .7 | .007 | 2. | 4. | 7.3 |
| 08/22/72 | .036 | .021 | --- | .008 | .4 | <.001 | 1. | 5. | 6.7 |
| 09/25/72 | .044 | .034 | --- | .002 | .2 | .006 | 2. | 4. | 3.3 |

DIAMOND LAKE
THIELSON VIEW STATION, 6 METERS

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.7 | 1. |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | 1. | 2.4 | .84 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1.1 | 2.5 | .9 |
| 05/24/72 | 72. | 22. | 4. | 2. | 1. | --- | 4.5 | 3. | 2.1 | .9 | 2.9 | .9 |
| 06/27/72 | 36. | --- | 2. | 2. | 1. | 1. | 4. | 4. | 1.8 | 1. | 3. | .9 |
| 07/24/72 | 81. | 26. | 2. | <1. | 2. | 2. | 3. | 2. | 2.2 | .9 | 3. | .9 |
| 08/22/72 | 250. | 190. | 3. | 1. | 2. | --- | 5. | --- | 2.1 | .9 | 2.9 | .9 |
| 09/25/72 | 62. | 49. | 2. | 2. | 4. | 3. | 3. | --- | 2.2 | 1.6 | 3.9 | 1. |

DIAMOND LAKE
THIELSON VIEW STATION, 6 METERS

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/04/71 | 5.10 | 10.9 | --- | --- | --- | --- | --- | --- | --- |
| 07/07/71 | 15.4 | 8.1 | 7.2 | 30.5 | 18. | --- | 2. | <1. | 8. |
| 08/03/71 | 21.6 | 7.8 | 8.4 | 30.4 | 17. | --- | <1. | --- | 21. |
| 09/01/71 | 19.1 | 8.3 | 8.9 | 33.0 | 18. | --- | <1. | <1. | 38. |
| 05/24/72 | 7.7 | 9.7 | 7.1 | 33.3 | 15.3 | 10. | 1.6 | 1.6 | 21. |
| 06/27/72 | 16.2 | 8.4 | 7.7 | 33.5 | 15.2 | 12. | 2. | --- | 48. |
| 07/24/72 | 19.0 | 8.0 | 8.0 | 26.5 | 14. | 9. | <1. | <1. | 39. |
| 08/22/72 | 18.1 | 8.8 | 5.4 | 37.6 | 16. | 9.5 | 1. | 1. | 13. |
| 09/25/72 | 12.4 | 6.2 | 8.5 | 36.7 | 16.8 | 12. | 4. | 2. | 96. |

DIAMOND LAKE
SILENT CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 05/24/71 | .047 | --- | .05 | .005 | .3 | .002 | --- | --- | --- |
| 06/04/71 | .046 | --- | .0485 | .001 | .2 | .003 | --- | --- | --- |
| 07/07/71 | .048 | --- | .052 | <.001 | .3 | <.006 | --- | --- | --- |
| 08/03/71 | .06 | --- | --- | <.001 | .1 | .003 | --- | --- | --- |
| 09/01/71 | .0645 | --- | .009 | .002 | .8 | .003 | --- | --- | --- |
| 05/24/72 | .05 | .044 | --- | .005 | .4 | .002 | 2. | 3. | 14.7 |
| 06/27/72 | .05 | .052 | --- | <.001 | .1 | .003 | 2. | --- | 15. |
| 07/24/72 | .058 | .056 | --- | .008 | .3 | .005 | <1. | --- | 15.7 |
| 08/22/72 | .054 | .054 | --- | .002 | .2 | .002 | --- | --- | 16.8 |
| 09/25/72 | .056 | .058 | --- | .004 | <.1 | .001 | <1. | --- | 6.25 |
| 05/23/73 | --- | --- | --- | .022 | <.01 | .005 | <1. | --- | 18.5 |
| 06/18/73 | .065 | .05 | --- | .01 | .19 | .012 | .9 | --- | 18. |
| 07/10/73 | .06 | .055 | --- | .004 | --- | .006 | .2 | --- | 15.7 |
| 07/17/73 | .05 | .05 | --- | .011 | .14 | .001 | --- | --- | --- |
| 08/14/73 | .065 | .055 | .049 | .014 | .045 | .014 | <.2 | --- | 17.9 |
| 09/11/73 | .06 | .05 | --- | .0055 | .16 | .018 | 5.5 | --- | 18. |
| 10/18/73 | --- | .06 | --- | .016 | .145 | .027 | .3 | 2.2 | 19. |
| 12/05/73 | --- | .06 | --- | .011 | <.05 | .010 | .3 | 4. | 18. |
| 05/10/74 | .06 | .0425 | --- | --- | .175 | --- | 1. | <1. | 15.2 |
| 06/05/74 | .045 | --- | --- | --- | .2 | --- | 5. | <1. | 11.5 |
| 07/10/74 | .025 | .015 | --- | --- | <.1 | --- | 3. | <1. | 15.4 |
| 08/07/74 | .27 | --- | --- | --- | 4.4 | --- | 2.3 | 1. | --- |
| 09/11/74 | .055 | .045 | --- | --- | <.1 | --- | --- | --- | 16.9 |
| 09/15/74 | --- | --- | --- | --- | --- | --- | .5 | 3.9 | --- |
| 10/09/74 | .055 | --- | --- | --- | <.1 | --- | <.1 | 1.2 | 18. |
| 12/04/74 | --- | .06 | --- | --- | --- | --- | --- | --- | 17.6 |
| 03/03/75 | .05 | .06 | --- | <.008 | <.1 | --- | .6 | 1.2 | 17.6 |
| 06/05/75 | .04 | .04 | .04 | <.005 | .05 | .005 | 1.5 | <1. | 2.76 |
| 07/09/75 | .04 | .04 | .028 | .02 | .4 | .005 | 1.3 | 1.3 | 16.8 |

DIAMOND LAKE
SILENT CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 08/13/75 | .06 | .06 | .06 | <.005 | <.05 | .005 | <1. | <1. | 18. |
| 09/18/75 | .05 | --- | --- | .005 | .1 | .005 | .4 | <1. | --- |
| 10/22/75 | .06 | .06 | .055 | .02 | .2 | .005 | .6 | <1. | 17.3 |
| 05/20/76 | .04 | --- | .055 | .005 | .05 | .005 | .9 | 1.2 | --- |
| 06/30/76 | .075 | --- | .055 | .019 | .3 | <.005 | .9 | <1. | 23.8 |
| 07/21/76 | .055 | --- | --- | <.005 | <.05 | <.005 | .2 | <1. | 50.8 |
| 08/18/76 | .055 | .055 | .055 | <.005 | .2 | <.005 | .6 | <1. | 40.3 |
| 09/15/76 | .055 | --- | .056 | <.005 | <.05 | .005 | .4 | <1. | 41.5 |
| 10/14/76 | .06 | --- | --- | --- | <.05 | --- | .3 | <1. | 39. |
| 04/28/77 | .06 | --- | --- | .008 | .04 | <.005 | <.2 | 1. | 38. |
| 06/02/77 | .08 | .07 | --- | .008 | .05 | <.005 | .3 | 2. | 39.5 |
| 06/30/77 | --- | .06 | --- | --- | --- | --- | --- | --- | 39.5 |
| 07/20/77 | .052 | .0525 | --- | .006 | .051 | <.005 | .6 | 1. | 19.2 |
| 08/18/77 | .1 | .056 | --- | <.005 | <.05 | <.005 | <.2 | 1. | 19.1 |
| 09/27/77 | .0465 | .0445 | --- | .017 | .208 | <.005 | 7. | <1. | 13.7 |
| 10/27/77 | .072 | .069 | --- | .005 | .0795 | <.005 | .6 | 1. | 19.5 |

DIAMOND LAKE
SILENT CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/24/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 1.1 | 3.5 | 1.2 |
| 06/04/71 | --- | 50. | --- | 4. | --- | 2. | --- | 5. | 2.5 | 1.1 | 3.5 | 1.1 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 1.3 | 3.3 | 1.1 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1.1 | 2.9 | .9 |
| 05/24/72 | 8. | --- | 2. | 2. | 1. | 1. | 3. | 3. | 2.3 | 1. | 3.2 | 1.1 |
| 06/27/72 | 34. | --- | 2. | 2. | 1. | 1. | 2. | --- | 2.4 | 1.3 | 3.4 | 1.3 |
| 07/24/72 | 26. | 15. | 1. | 1. | 3. | 2. | 2. | 2. | 2.5 | 1.3 | 3.6 | 1.2 |
| 08/22/72 | 100. | --- | 2. | 1. | 9. | 6. | 54. | 32. | 2.8 | 1. | 3.5 | 1.3 |
| 09/25/72 | 31. | 23. | 1. | 1. | 2. | 2. | 1. | --- | 2.6 | 1.3 | 3.9 | 1.4 |
| 05/23/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.3 | 3.3 | 1.4 |
| 06/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.3 | 3.7 | 1.4 |
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | 3.1 | 1.4 | 3.6 | 1.4 |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.3 | 4. | 1.3 |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.4 | 3.5 | 1.4 |
| 10/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1.2 | 3.5 | 1.2 |
| 12/05/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.4 | 3.2 | 1.2 |
| 05/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 3.2 | 1.3 | 3.4 | 1.2 |
| 06/05/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.7 | .9 | 2.9 | .9 |
| 07/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | 1.2 | 3.5 | 1.1 |
| 08/07/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.2 | 3.6 | 1.2 |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.2 |
| 10/09/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.1 |
| 12/04/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.5 | 4. | 1.3 |
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.4 | .9 | 3.3 | .9 |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | 1.2 | 3.9 | 1.2 |
| 08/13/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.2 | 3.8 | 1. |

DIAMOND LAKE
SILENT CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/18/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1.3 | 4. | 1.3 |
| 10/22/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 1.1 | 3.9 | 1.3 |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.5 | 3.6 | 1. |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.8 | 1.2 | 2.6 | 1.2 |
| 07/21/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 1.1 | 3.7 | .01 |
| 08/18/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 1.3 | 3.4 | <.1 |
| 09/15/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.3 | 3.8 | <.1 |
| 10/14/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.3 | 3.7 | <.1 |

DIAMOND LAKE
SILENT CREEK

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 05/24/71 | --- | --- | --- | --- | 19. | --- | <1. | <1. | --- |
| 06/04/71 | --- | --- | 7.3 | 35.7 | 20. | --- | 1. | 1. | 28. |
| 07/07/71 | --- | --- | 7.4 | 39.4 | 22. | --- | 1. | <1. | 59. |
| 08/03/71 | --- | --- | --- | 40.3 | 21. | --- | <1. | --- | 63. |
| 09/01/71 | --- | --- | --- | 41.0 | 16. | --- | 3. | 2. | 33. |
| 05/24/72 | --- | --- | --- | 38.1 | 15.3 | 14. | 1.2 | 1.2 | 39. |
| 06/27/72 | --- | --- | --- | 38.0 | 19.6 | 11. | 2. | 2. | 79. |
| 07/24/72 | --- | --- | --- | 35.6 | 18.5 | 13. | <1. | <1. | 64. |
| 08/22/72 | --- | --- | --- | 45.4 | 18. | 11. | 2. | 2. | 46. |
| 09/25/72 | --- | --- | --- | 46.3 | 20.2 | 18. | 2. | 1. | 62. |
| 05/23/73 | --- | --- | 7.2 | 41.5 | 21.7 | 12. | 2. | 2. | 65. |
| 06/18/73 | --- | --- | --- | 42.0 | 20.6 | 12. | 7. | 2. | 81. |
| 07/10/73 | --- | --- | --- | --- | 21.2 | 13. | <1. | <1. | 82. |
| 08/14/73 | --- | --- | 7.0 | 41.9 | 23.3 | 12. | <1. | <1. | 66. |
| 09/11/73 | --- | --- | 6.9 | 43.8 | 20.6 | 13.5 | <1. | <1. | 68. |
| 10/18/73 | --- | --- | 7.5 | 43.7 | 23. | 16. | <1. | <1. | 65. |
| 12/05/73 | --- | --- | --- | --- | --- | 14. | 1. | <1. | 60. |
| 05/10/74 | --- | --- | --- | --- | --- | 11. | 4. | <1. | 77. |
| 06/05/74 | --- | --- | 6.9 | 28.6 | 15.2 | 9. | 3. | 2. | 43. |
| 07/10/74 | --- | --- | --- | --- | --- | 11. | 1. | 3. | 51. |
| 08/07/74 | --- | --- | 7.7 | 41.0 | 31.7 | 12. | <1. | <1. | 56. |
| 09/11/74 | --- | --- | --- | 39.5 | --- | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | 13. | 3. | 3. | 72. |
| 10/09/74 | --- | --- | 7.4 | 41.4 | --- | 14. | 1. | 1. | 70. |
| 12/04/74 | --- | --- | --- | 39.0 | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | 7.0 | --- | 23.3 | 12. | <1. | <1. | 62. |
| 06/05/75 | --- | --- | --- | --- | 24.1 | 3. | 7. | 3. | 54. |
| 07/09/75 | --- | --- | --- | 40.5 | 20.5 | 15. | <1. | <1. | 63. |
| 08/13/75 | --- | --- | --- | 43.5 | 21.3 | 11. | <1. | <1. | 52. |
| 09/18/75 | --- | --- | --- | 43.6 | 21.1 | 12. | 3. | 1. | 67. |
| 10/22/75 | --- | --- | --- | 42.8 | 22.1 | 12. | 4. | 4. | 52. |

DIAMOND LAKE
SILENT CREEK

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 05/20/76 | --- | --- | --- | --- | 19.8 | 11. | 1. | <1. | 53. |
| 06/30/76 | --- | --- | --- | 39.3 | 20.2 | 12. | 6. | 3. | 56. |
| 07/21/76 | --- | --- | --- | 41.7 | 23.1 | 12. | <1. | <1. | 75. |
| 08/18/76 | --- | --- | --- | 52.1 | 22.6 | 14. | <1. | --- | 58. |
| 09/15/76 | --- | --- | --- | 43.8 | 25.5 | 12. | --- | --- | 89. |
| 10/14/76 | --- | --- | --- | --- | 21.9 | 13. | --- | --- | 71. |
| 04/28/77 | --- | --- | --- | 43.9 | 23.3 | --- | --- | --- | --- |
| 06/02/77 | --- | --- | --- | 44.6 | 22.7 | --- | --- | --- | --- |
| 06/30/77 | --- | --- | --- | 45.0 | 23.5 | --- | --- | --- | --- |
| 07/20/77 | --- | --- | --- | 46.3 | 22.5 | --- | --- | --- | --- |
| 08/18/77 | --- | --- | --- | 45.9 | 22.4 | --- | --- | --- | --- |
| 09/27/77 | --- | --- | --- | 34.8 | 16.8 | --- | --- | --- | --- |
| 10/27/77 | --- | --- | --- | 44.7 | 20.9 | --- | --- | --- | --- |

DIAMOND LAKE
LAKE CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 05/24/71 | .036 | --- | .011 | .094 | 1.4 | .025 | --- | --- | --- |
| 06/04/71 | .05 | --- | .018 | <.001 | .6 | .002 | --- | --- | --- |
| 07/07/71 | .0295 | --- | .01 | .0175 | .5 | <.005 | --- | --- | --- |
| 08/03/71 | .018 | --- | .037 | .005 | .2 | .001 | --- | --- | --- |
| 09/01/71 | .06 | --- | .058 | .003 | .2 | .005 | --- | --- | --- |
| 05/24/72 | .048 | .019 | --- | .003 | .6 | <.001 | 4. | 3.1 | 6.3 |
| 06/27/72 | .019 | .014 | --- | .002 | .4 | <.001 | .4 | --- | 6.73 |
| 07/24/72 | .023 | .013 | --- | .016 | .4 | .006 | 1. | --- | 7. |
| 08/22/72 | .042 | .025 | --- | .005 | .6 | .001 | --- | --- | 5.8 |
| 09/25/72 | .029 | .028 | --- | .006 | .2 | .001 | 2. | --- | 1.95 |
| 05/23/73 | .04 | .015 | --- | .011 | .36 | .007 | 1. | --- | 6.4 |
| 06/18/73 | .015 | .015 | --- | .025 | .24 | .013 | 2. | --- | 5.55 |
| 07/10/73 | .015 | .005 | --- | .035 | .19 | .010 | 2.3 | --- | 5.4 |
| 08/14/73 | .025 | .01 | .001 | .013 | .2 | .021 | 2.8 | --- | 5.4 |
| 09/11/73 | .035 | .015 | --- | .006 | .36 | .015 | 3.4 | --- | 5. |
| 10/18/73 | .04 | .015 | --- | .038 | .12 | .045 | <.2 | 2.4 | 1.26 |
| 12/05/73 | .01 | .0075 | --- | .017 | .3 | .008 | 2.4 | 3. | 1.26 |
| 05/10/74 | <.005 | <.005 | --- | --- | .4 | --- | 2. | <1. | 2. |
| 06/05/74 | .04 | .05 | --- | --- | .3 | --- | 3. | <1. | 4.5 |
| 07/10/74 | <.005 | .015 | --- | --- | .3 | --- | 6.9 | <1. | 4. |
| 08/07/74 | <.005 | --- | --- | --- | .3 | --- | 4. | <1. | --- |
| 09/11/74 | .02 | <.005 | --- | --- | .3 | --- | --- | --- | 4.4 |
| 09/15/74 | --- | --- | --- | --- | --- | --- | 3.1 | 2.4 | --- |
| 10/09/74 | <.005 | --- | --- | --- | <.1 | --- | 4. | <1. | 4.4 |
| 12/04/74 | --- | .01 | --- | --- | --- | --- | --- | --- | 1.16 |
| 03/03/75 | .01 | .01 | .01 | .032 | .2 | --- | 2.5 | <1. | 1.76 |
| 06/05/75 | .03 | <.01 | <.005 | <.005 | .25 | .005 | 3.3 | <1. | 5.2 |
| 07/09/75 | <.01 | <.01 | <.005 | <.005 | .3 | .005 | 2.3 | <1. | 4.35 |
| 08/13/75 | <.01 | <.01 | .01 | <.005 | .2 | .005 | 2.7 | <1. | 4.1 |
| 09/18/75 | .02 | .02 | <.005 | .005 | .4 | .005 | 3. | <1. | 3.78 |

DIAMOND LAKE
LAKE CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | .03 | .02 | .005 | .005 | .4 | .005 | 3.6 | <1. | .44 |
| 05/20/76 | .08 | --- | .025 | .04 | .35 | <.005 | 2. | <1. | --- |
| 06/30/76 | .01 | .01 | .005 | .005 | .2 | <.005 | 2.6 | 1. | 9.5 |
| 07/21/76 | .015 | .01 | .008 | <.005 | .2 | <.005 | 2.1 | <1. | 11.2 |
| 08/18/76 | .025 | <.01 | <.005 | .015 | .4 | .005 | 3.2 | <1. | 7.5 |
| 09/15/76 | .01 | --- | .005 | .005 | .27 | <.005 | 3.3 | <1. | 4. |
| 10/14/76 | .03 | --- | --- | --- | .34 | --- | 3.4 | <1. | 1. |
| 04/28/77 | .08 | --- | --- | .01 | .52 | .005 | 2.1 | <1. | 4.5 |
| 06/02/77 | .0165 | .03 | --- | .0175 | .25 | <.005 | 2.9 | 2. | 4.5 |
| 06/30/77 | --- | .02 | --- | --- | --- | --- | --- | --- | 4.7 |
| 07/20/77 | .033 | <.01 | --- | .0105 | .372 | <.005 | 3.7 | 1. | 1.72 |
| 08/18/77 | .0705 | <.01 | --- | .013 | 1.21 | <.005 | 6.1 | 1. | 2.23 |
| 09/27/77 | .06 | .03 | --- | .05 | .44 | .028 | 3.9 | <1. | 2.09 |
| 10/27/77 | .065 | .035 | --- | .0335 | .484 | .0215 | 4. | 1. | <.1 |

DIAMOND LAKE
LAKE CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/24/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .8 | 3. | 1.1 |
| 06/04/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .9 | 3. | .9 |
| 07/07/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1.1 | 2.8 | 1.1 |
| 08/03/71 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 2.7 | .88 |
| 09/01/71 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.4 | 3.3 | 1.3 |
| 05/24/72 | 82. | 50. | 5. | 5. | 1. | 1. | 4. | 3.5 | 2.1 | .9 | 2.8 | .8 |
| 06/27/72 | 32. | 32. | 2. | 2. | 1. | --- | 2. | --- | 1.8 | 1. | 2.9 | .9 |
| 07/24/72 | 34. | 27. | 1. | 1. | 2. | 2. | <1. | --- | 1.7 | 1. | 3. | .8 |
| 08/22/72 | 160. | --- | 3. | 2. | 4. | 2. | 14. | 6. | 2.1 | 1.3 | 2.9 | .85 |
| 09/25/72 | 61. | 51. | 2. | 1. | 3. | 2. | 1. | --- | 2.1 | 1. | 3.2 | 1. |
| 05/23/73 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | 1. | 3. | 1.1 |
| 06/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .9 | 3.1 | 1. |
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1.1 | 3. | 1.1 |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | 1. | 3.7 | 1. |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | 1.1 | 3.3 | 1. |
| 10/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | .9 | 3.1 | .8 |
| 12/05/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1.2 | 3. | .9 |
| 05/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .6 | 2.2 | .7 |
| 06/05/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | .9 | 3.2 | .9 |
| 07/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.4 | 1. | 3. | .9 |
| 08/07/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | 1. | 3.8 | 1.3 |
| 0[illegible]/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.11 |
| 10/09/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .91 |
| 12/04/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.45 | 1.15 | 3.3 | 1. |
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.7 | 1. | 3.6 | 1.1 |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.6 | .9 | 3.5 | 1. |
| 08/13/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | .9 | 3.6 | .8 |
| 09/18/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 3.5 | 1. |

DIAMOND LAKE
LAKE CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | 1. | 3.4 | 1. |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1.4 | 3.5 | 1. |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1. | 2.3 | 1. |
| 07/21/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | <1. | 3.2 | <.1 |
| 08/18/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | 1. | 2.9 | <.1 |
| 09/15/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | 1. | 3.2 | <.1 |
| 10/14/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | 1.1 | 3.3 | <.1 |

DIAMOND LAKE
LAKE CREEK

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 05/24/71 | --- | --- | --- | --- | 15. | --- | 8. | .5 | 44. |
| 06/04/71 | --- | --- | 8.1 | 30.9 | 18. | --- | 2.5 | 1. | 31. |
| 07/07/71 | --- | --- | 7.6 | 32.0 | 17. | --- | 3. | 1. | 23. |
| 08/03/71 | --- | --- | --- | 31.1 | 17. | --- | <1. | --- | 110. |
| 09/01/71 | --- | --- | --- | 31.2 | 21. | --- | <1. | <1. | 60. |
| 05/24/72 | --- | --- | --- | 34.3 | 14.6 | 13. | 2.4 | .8 | 15. |
| 06/27/72 | --- | --- | --- | 29.4 | 15.7 | 9. | <1. | | 41. |
| 07/24/72 | --- | --- | --- | 27.6 | 14.5 | 12. | <1. | <1. | 31. |
| 08/22/72 | --- | --- | --- | 36.4 | 14. | 9. | 11. | 10. | 30. |
| 09/25/72 | --- | --- | --- | 35.3 | 15.7 | 24. | 2. | 1. | 40. |
| 05/23/73 | --- | --- | 7.0 | 31.9 | 16.3 | 9. | 8. | 6. | 50. |
| 06/18/73 | --- | --- | --- | 37.8 | 16.6 | 8.5 | 6. | 3. | 46. |
| 07/10/73 | --- | --- | --- | --- | 16.8 | 11. | <1. | <1. | 52. |
| 08/14/73 | --- | --- | 8.7 | 37.9 | 17.9 | 9. | <1. | <1. | 36. |
| 09/11/73 | --- | --- | 8.6 | 37.0 | 17.4 | 9.5 | 4. | 2. | 37. |
| 10/18/73 | --- | --- | 9.0 | 35.7 | 19. | 20. | 9. | 3. | 34. |
| 12/05/73 | --- | --- | --- | --- | --- | 11. | <1. | <1. | 20. |
| 05/10/74 | --- | --- | --- | --- | --- | 6. | 2. | 2. | 34. |
| 06/05/74 | --- | --- | 6.8 | 30.6 | 15.2 | 9. | 4. | 2. | 35. |
| 07/10/74 | --- | --- | --- | --- | --- | 10. | 27. | 4. | 32. |
| 08/07/74 | --- | --- | 9.2 | 35.0 | 28.7 | 9. | 2. | 2. | 25. |
| 09/11/74 | --- | --- | --- | 33.1 | --- | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | 11. | 6. | 5. | 46. |
| 10/09/74 | --- | --- | --- | 35.2 | --- | 11. | 2. | 1. | 41. |
| 12/04/74 | --- | --- | 7.4 | 32.2 | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | 7.1 | --- | 19.3 | 10. | <1. | <1. | 23. |
| 06/05/75 | --- | --- | --- | --- | 26.7 | 10. | 5. | 2. | 34. |
| 07/09/75 | --- | --- | --- | 34.7 | 16.8 | 12. | <1. | <1. | 38. |
| 08/13/75 | --- | --- | --- | 35.5 | 17.5 | 9. | 1. | 1. | 24. |
| 09/18/75 | --- | --- | --- | 37.1 | 16.9 | 9. | 7. | 4. | 36. |
| 10/22/75 | --- | --- | --- | 37.2 | 18.0 | 9. | 6. | 3. | 6. |

DIAMOND LAKE
LAKE CREEK

| | Temp °C | DO mg/l | pH | Sp. Cond. µmhos/cm | Alk mg/l | T. Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 05/20/76 | --- | --- | --- | --- | 18.8 | 11. | 4. | <1. | 28. |
| 06/30/76 | --- | --- | --- | 32.5 | 14.8 | 10. | 44.5 | 4. | 48. |
| 07/21/76 | --- | --- | --- | 35.4 | 15.5 | 9. | <1. | <1. | 50. |
| 08/18/76 | --- | --- | --- | 43.5 | 17.6 | 12. | <1. | --- | 31. |
| 09/15/76 | --- | --- | --- | 35.7 | 18.6 | 9. | --- | --- | 26. |
| 10/14/76 | --- | --- | --- | --- | 18.1 | 10. | --- | --- | 42. |
| 04/28/77 | --- | --- | --- | 37.2 | 22.5 | --- | --- | --- | --- |
| 06/02/77 | --- | --- | --- | 37.6 | 19.0 | --- | --- | --- | --- |
| 06/30/77 | --- | --- | --- | 38.1 | 19.6 | --- | --- | --- | --- |
| 07/20/77 | --- | --- | --- | 40.9 | 18.9 | --- | --- | --- | --- |
| 08/18/77 | --- | --- | --- | 43.4 | 19.1 | --- | --- | --- | --- |
| 09/27/77 | --- | --- | --- | 37.8 | 18.4 | --- | --- | --- | --- |
| 10/27/77 | --- | --- | --- | 38.1 | 17.5 | --- | --- | --- | --- |

DIAMOND LAKE
TWO BEAR CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 07/17/73 | .057 | .046 | --- | .003 | .06 | .001 | --- | --- | --- |
| 05/10/74 | .12 | .03 | --- | --- | .1 | --- | 2.3 | <1. | 13.2 |
| 06/05/74 | .062 | .065 | --- | --- | <.1 | --- | 1. | <1. | 13.2 |
| 07/10/74 | .09 | .04 | --- | --- | .2 | --- | 7.7 | <1. | 13.2 |
| 08/14/74 | .04 | --- | --- | --- | <.1 | --- | 3.2 | <1. | --- |
| 09/11/74 | .05 | .04 | --- | --- | <.1 | --- | --- | --- | 15.2 |
| 09/15/74 | --- | --- | --- | --- | --- | --- | .3 | 3.3 | --- |
| 10/18/74 | .06 | --- | --- | --- | <.1 | --- | 1. | <1. | 16. |
| 12/04/74 | --- | .05 | --- | --- | --- | --- | --- | --- | 16. |
| 03/03/75 | --- | .05 | .035 | --- | --- | --- | 1.6 | --- | 13.8 |
| 06/05/75 | .08 | .035 | .035 | <.005 | .25 | .005 | 2.5 | <1. | 2.76 |
| 07/09/75 | .06 | .055 | .055 | <.005 | .2 | .005 | 1. | 1.1 | 16. |
| 08/13/75 | .05 | .05 | .05 | <.005 | <.05 | .005 | <1. | <1. | 16. |
| 09/18/75 | .06 | .05 | .045 | <.005 | .15 | .005 | .5 | <1. | 16. |
| 10/22/75 | .06 | .05 | .04 | <.005 | <.1 | .005 | 1.9 | <1. | 13.8 |
| 05/20/76 | .05 | --- | .045 | .005 | .1 | .005 | 1.7 | <1. | --- |
| 06/30/76 | .053 | .06 | .048 | <.005 | .12 | <.005 | 1. | <1. | 69.5 |
| 07/21/76 | .055 | .053 | .053 | .015 | .05 | <.005 | .9 | <1. | 42. |
| 08/18/76 | .06 | .046 | .046 | <.005 | .05 | <.005 | .7 | <1. | 34.6 |
| 09/15/76 | .05 | --- | .045 | <.005 | <.05 | <.005 | .9 | <1. | 37.4 |
| 10/22/76 | .06 | --- | --- | --- | <.05 | --- | .7 | <1. | 40.8 |
| 04/28/77 | .08 | --- | --- | .017 | .1 | <.005 | --- | --- | 34.3 |
| 06/02/77 | .066 | .07 | --- | .01 | .08 | <.005 | .9 | 2. | 34.5 |
| 09/27/77 | .219 | .045 | --- | .04 | .589 | .017 | 16. | 1. | 3.51 |

DIAMOND LAKE
TWO BEAR CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 4. | .5 | 2.3 | 1.3 |
| 06/05/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | .4 | 2.5 | 1.2 |
| 07/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .5 | 2.7 | 1.4 |
| 08/14/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | .4 | 2.8 | 1.5 |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.13 |
| 10/18/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.34 |
| 12/04/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.8 | .5 | 2.4 | 1.4 |
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | .4 | 2.7 | 1.3 |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.8 | .5 | 3. | 1.5 |
| 08/13/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | .4 | 2.8 | 1.2 |
| 09/18/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | .5 | 2.9 | 1.5 |
| 10/22/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.8 | .5 | 3.6 | 1.4 |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.8 | .6 | 2.6 | 1.2 |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.9 | .5 | 1.9 | 1.4 |
| 07/21/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | <1. | 2.7 | .03 |
| 08/18/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | .5 | 2.4 | <.1 |
| 09/15/76 | --- | --- | --- | <.005 | --- | --- | --- | --- | 2.7 | .6 | 2.7 | <.1 |
| 10/22/76 | --- | --- | --- | --- | --- | --- | --- | --- | 3.2 | .5 | 2.7 | <.1 |

DIAMOND LAKE
TWO BEAR CREEK

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 05/10/74 | --- | --- | --- | --- | --- | --- | 35. | 10. | 107. |
| 06/05/74 | --- | --- | 6.5 | 27.2 | 12.3 | 8. | 9. | 2. | 58. |
| 07/10/74 | --- | --- | --- | --- | --- | 9. | 4. | 2. | 72. |
| 08/14/74 | --- | --- | 6.8 | 30.6 | 24.8 | 10. | 3. | 1. | 51. |
| 09/11/74 | --- | --- | --- | 30.7 | --- | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | 9. | 4. | 5. | 63. |
| 10/18/74 | --- | --- | --- | 33.3 | --- | 12. | <1. | <1. | 63. |
| 12/04/74 | --- | --- | 7.4 | 32.0 | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | --- | --- | --- | 9. | 4. | 4. | 69. |
| 06/05/75 | --- | --- | --- | --- | --- | 7. | 16. | 5. | 64. |
| 07/09/75 | --- | --- | --- | 38.3 | 18.3 | 17. | 1. | 1. | 63. |
| 08/13/75 | --- | --- | --- | 32.9 | 15.5 | 8. | 2. | <1. | 50. |
| 09/18/75 | --- | --- | --- | 34.7 | 16.4 | 9. | 5. | 2. | 57. |
| 10/22/75 | --- | --- | --- | 30.1 | 15.3 | 9. | 5. | 3. | 46. |
| 05/20/76 | --- | --- | --- | --- | 14.2 | 9. | 10. | 5. | 52. |
| 06/30/76 | --- | --- | --- | 30.5 | 15.8 | 10. | 4. | 1. | 55. |
| 07/21/76 | --- | --- | --- | 31.3 | 16.3 | 9. | 8. | <1. | 45. |
| 08/18/76 | --- | --- | --- | 41.0 | 17.2 | 9. | <1. | --- | 56.5 |
| 09/15/76 | --- | --- | --- | 18.2 | 33.7 | 9. | --- | --- | 73. |
| 10/22/76 | --- | --- | --- | --- | 19.3 | 12. | --- | --- | 65. |
| 04/28/77 | --- | --- | --- | 36.6 | 19.2 | --- | --- | --- | --- |
| 06/02/77 | --- | --- | --- | 37.1 | 19.0 | --- | --- | --- | --- |
| 09/27/77 | --- | --- | --- | 6.2 | 5.7 | --- | --- | --- | --- |

DIAMOND LAKE
SPRUCE CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 07/17/73 | <.005 | .005 | --- | <.001 | .01 | .001 | --- | --- | --- |
| 06/05/74 | .02 | --- | --- | --- | <.1 | --- | 1.1 | <1. | 9.5 |
| 07/10/74 | <.005 | .015 | --- | --- | <.1 | --- | 6. | <1. | 13.2 |
| 08/07/74 | <.005 | --- | --- | --- | .2 | --- | 1.9 | <1. | --- |
| 09/11/74 | <.005 | --- | --- | --- | <.1 | --- | --- | --- | --- |
| 03/03/75 | .01 | .02 | .02 | <.008 | <.1 | --- | 1.6 | 1.8 | 15. |
| 06/05/75 | .02 | <.01 | <.005 | <.005 | .1 | .01 | 1.5 | <1. | 2.3 |
| 07/09/75 | <.01 | <.01 | .005 | <.005 | .15 | .005 | .5 | <1. | 11.2 |
| 08/13/75 | .03 | <.01 | .01 | <.005 | .1 | .005 | 1.3 | <1. | 11.5 |
| 10/22/75 | <.01 | <.01 | <.005 | <.005 | <.1 | .005 | .3 | <1. | 10.4 |
| 05/20/76 | .05 | --- | .005 | <.005 | .15 | .01 | 1.7 | <1. | --- |
| 06/30/76 | .013 | --- | .007 | <.005 | .2 | <.005 | .6 | <1. | 92.5 |
| 07/21/76 | <.01 | <.01 | .01 | <.005 | .05 | <.005 | .3 | <1. | 30.9 |
| 08/18/76 | .025 | <.01 | --- | <.005 | .2 | <.005 | .4 | <1. | 26.2 |
| 09/15/76 | <.01 | --- | .005 | <.005 | <.05 | <.005 | .4 | <1. | 24.5 |

DIAMOND LAKE
SPRUCE CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.3 | .2 | 1.9 | .9 |
| 07/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | .5 | 2.4 | 1. |
| 08/07/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.4 | .2 | 1.7 | 1.1 |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.2 | <.2 | 2.1 | .9 |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.2 | .3 | 2.1 | .9 |
| 08/13/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.6 | .3 | 1.9 | .8 |
| 10/22/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .3 | 2. | 1. |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .4 | 1.9 | .8 |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .3 | 1.4 | 1. |
| 07/21/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.6 | <1. | 1.9 | <.1 |
| 08/18/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | .4 | 1.7 | <.1 |
| 09/15/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .4 | 1.9 | <.1 |

DIAMOND LAKE
SPRUCE CREEK

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/74 | --- | --- | 6.9 | 18.2 | 9.6 | 4. | 5. | 1. | 39. |
| 07/10/74 | --- | --- | --- | --- | --- | 13. | 2. | 3. | 52. |
| 08/07/74 | --- | --- | --- | --- | --- | 9. | 1. | <1. | 38.5 |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | 7.2 | --- | 21.3 | --- | --- | --- | --- |
| 06/05/75 | --- | --- | --- | --- | --- | 4. | 6. | 3. | 41. |
| 07/09/75 | --- | --- | --- | 22.3 | 10.5 | 10. | <1. | <1. | 43. |
| 08/13/75 | --- | --- | --- | 22.1 | 10.8 | 5. | 2. | <1. | 43. |
| 10/22/75 | --- | --- | --- | 23.0 | 11.7 | 6. | 1. | 1. | 18. |
| 05/20/76 | --- | --- | --- | --- | 10.6 | 6. | 26. | 4. | 54. |
| 06/30/76 | --- | --- | --- | 20.6 | 10.2 | 6. | 6. | 1. | 20. |
| 07/21/76 | --- | --- | --- | 22.1 | 11.3 | 6. | <1. | <1. | 37. |
| 08/18/76 | --- | --- | --- | 27.5 | 12.0 | 6. | <1. | --- | 36.5 |
| 09/15/76 | --- | --- | --- | 22.9 | 12.1 | 6. | --- | --- | 77. |

DIAMOND LAKE
PORCUPINE CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/74 | .025 | --- | --- | --- | <.1 | --- | 1.3 | <1. | 9.2 |
| 07/10/74 | .01 | .005 | --- | --- | <.1 | --- | 5. | <1. | 10.5 |
| 08/07/74 | .005 | --- | --- | --- | <.1 | --- | 2.1 | <1. | --- |
| 09/11/74 | <.005 | --- | --- | --- | <.1 | --- | --- | --- | --- |
| 06/03/75 | .02 | <.01 | .01 | .005 | .05 | .01 | 2.4 | <1. | 1.92 |
| 07/09/75 | <.01 | <.01 | .01 | <.005 | .15 | .005 | 1. | <1. | 10.8 |
| 08/13/75 | .015 | .015 | .015 | <.005 | <.05 | .005 | <1. | <1. | 12. |
| 09/18/75 | .01 | .01 | .01 | <.005 | .05 | .005 | .5 | <1. | 12. |
| 05/20/76 | .01 | --- | .01 | <.005 | .05 | .01 | .8 | <1. | --- |
| 06/30/76 | .015 | .014 | .012 | <.005 | .3 | <.005 | .8 | <1. | 26.5 |
| 07/21/76 | .025 | .015 | .013 | <.005 | .025 | <.005 | .4 | <1. | 33. |
| 08/18/76 | .025 | .01 | --- | <.005 | .05 | <.005 | .4 | <1. | 26.4 |
| 09/15/76 | .011 | --- | .011 | <.005 | <.05 | .006 | 1.3 | <1. | 25.7 |

DIAMOND LAKE
PORCUPINE CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | .4 | 1.9 | .9 |
| 07/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .5 | 1.8 | .9 |
| 08/07/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | .3 | 2.1 | 1. |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | .3 | 1.9 | .8 |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | .4 | 2.2 | .9 |
| 08/13/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.1 | .4 | 2.2 | .8 |
| 09/18/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | .4 | 1.3 | 1. |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | .5 | 1.9 | .8 |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.75 | .45 | 1.4 | 1. |
| 07/21/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | <1. | 2. | <.1 |
| 08/18/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | .5 | 1.9 | <.1 |
| 09/15/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | .5 | 2.1 | <.1 |

DIAMOND LAKE
PORCUPINE CREEK

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/74 | --- | --- | 6.7 | 22.8 | 12.3 | 7. | 3. | 1. | 43. |
| 07/10/74 | --- | --- | --- | --- | --- | 9. | <1.5 | <1. | 35. |
| 08/07/74 | --- | --- | --- | --- | --- | 10. | <1. | <1. | 43. |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/05/75 | --- | --- | --- | --- | --- | 9. | 9.5 | 3.5 | 40. |
| 07/09/75 | --- | --- | --- | 26.6 | 13.5 | 13. | <1. | <1. | 30. |
| 08/13/75 | --- | --- | --- | 28.3 | 14.3 | 9. | 2. | <1.5 | 38. |
| 09/18/75 | --- | --- | --- | 28.5 | 13.9 | 8. | 3. | 2. | 47. |
| 05/20/76 | --- | --- | --- | --- | 13.4 | 8. | <1. | <1. | 25. |
| 06/30/76 | --- | --- | --- | 25.4 | 13.1 | 9. | <1. | 2. | 23. |
| 07/21/76 | --- | --- | --- | 26.7 | 14.7 | 9. | <1. | <1. | 15. |
| 08/18/76 | --- | --- | --- | 36.2 | 15.4 | 10. | <1. | --- | 43. |
| 09/15/76 | --- | --- | --- | 29.2 | 14.6 | 9. | --- | --- | 55. |

DIAMOND LAKE
SHORT CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 07/17/73 | .0425 | .045 | --- | .008 | .06 | .029 | --- | --- | --- |
| 08/14/73 | .06 | .055 | .046 | .013 | .02 | .017 | 21. | --- | --- |
| 09/11/73 | .055 | .05 | --- | .004 | --- | .023 | 21. | --- | --- |
| 10/18/73 | --- | .06 | --- | .018 | .52 | .040 | 21. | 4.6 | 1.5 |
| 12/05/73 | .055 | .055 | --- | .007 | .1 | .010 | 21. | .2 | 3. |
| 05/10/74 | .055 | .045 | --- | --- | <.1 | --- | <.5 | <1. | 20. |
| 06/05/74 | .055 | --- | --- | --- | <.1 | --- | 1. | <1. | 17.6 |
| 07/10/74 | .02 | --- | --- | --- | <.1 | --- | 4.2 | <1. | 17.6 |
| 08/07/74 | .035 | --- | --- | --- | <.1 | --- | .5 | 2. | --- |
| 09/11/74 | .05 | .035 | --- | --- | <.1 | --- | --- | --- | 19.8 |
| 09/15/74 | --- | --- | --- | --- | --- | --- | <.2 | 3.6 | --- |
| 10/09/74 | <.005 | --- | --- | --- | <.1 | --- | 1. | 1.7 | 20. |
| 12/04/74 | --- | .06 | --- | --- | --- | --- | --- | --- | 20. |
| 03/03/75 | .055 | .06 | .06 | <.005 | <.05 | --- | .7 | 1.8 | 21. |
| 06/05/75 | .05 | .055 | .055 | <.005 | .15 | .015 | .5 | 1.2 | 20. |
| 07/09/75 | .05 | .05 | .0475 | <.005 | .15 | .01 | .5 | 1.3 | 20. |
| 08/13/75 | .05 | .055 | .055 | <.005 | <.05 | .01 | <1. | <1. | 2.05 |
| 09/18/75 | .06 | .05 | .05 | <.005 | .1 | .01 | .5 | <1. | 20. |
| 10/22/75 | .07 | .07 | .055 | <.005 | <.1 | .01 | <.2 | <1. | 20. |
| 05/20/76 | .05 | --- | --- | <.005 | .05 | .015 | .4 | <1. | --- |
| 06/30/76 | .01 | .06 | .048 | <.005 | .15 | .021 | .4 | <1. | 45. |
| 07/21/76 | .06 | .05 | .05 | <.005 | .05 | .013 | <.2 | <1. | 34.6 |
| 08/18/76 | .065 | .045 | --- | .005 | .1 | .01 | .4 | <1. | 44.5 |
| 09/15/76 | .06 | --- | .058 | <.005 | <.05 | .013 | .3 | <1. | 44.6 |
| 10/14/76 | .06 | --- | --- | --- | <.05 | --- | .7 | <1. | 45.8 |
| 04/28/77 | .06 | --- | --- | .009 | .03 | .011 | <.2 | <1. | 46.7 |
| 06/02/77 | .02 | .042 | --- | .006 | .05 | .009 | <.2 | 2. | 45.5 |
| 06/30/77 | .07 | .06 | --- | --- | --- | --- | --- | --- | 45.5 |
| 07/20/77 | .0585 | .0615 | --- | <.005 | <.05 | .0065 | .7 | 1. | 22.5 |

DIAMOND LAKE
SHORT CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 08/18/77 | .0645 | .061 | --- | .0055 | <.05 | .008 | .4 | 1. | 22. |
| 09/27/77 | .057 | .061 | --- | <.005 | <.005 | .009 | <.2 | 1. | 22.7 |
| 10/27/77 | .0595 | .0585 | --- | <.005 | <.05 | .007 | <.2 | 1. | 22.2 |

DIAMOND LAKE
SHORT CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 08/14/73 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 4. | 1.3 |
| 09/11/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.8 | 1. | 3.9 | 1.4 |
| 10/18/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | .9 | 3.8 | 1.2 |
| 12/05/73 | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | 1.1 | 3.9 | 1.4 |
| 05/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 3. | .9 | 4.4 | 1.4 |
| 06/05/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2.2 | .9 | 4.3 | 1.2 |
| 07/10/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | 1. | 4.3 | 1.2 |
| 08/07/74 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | .9 | 4. | 1.4 |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.03 |
| 10/09/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.21 |
| 12/04/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | 1.1 | 3.8 | 1.3 |
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .9 | 4.3 | 1.3 |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2. | 1. | 4.1 | 1.3 |
| 08/13/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | .9 | 4.3 | 1.1 |
| 09/18/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | 1. | 4.2 | 1.5 |
| 10/22/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.55 | 1. | 4.2 | 1.35 |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.2 | 4.1 | 1.1 |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | .8 | 2.5 | 1.2 |
| 07/21/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.4 | <1. | 3.9 | .03 |
| 08/18/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 1. | 4. | <.1 |
| 09/15/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 | 1. | 4.1 | <.1 |
| 10/14/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | 1.1 | 4.1 | <.1 |

DIAMOND LAKE
SHORT CREEK

| | Temp °C | DO mg/l | pH | Sp. Cond. µmhos/cm | Alk mg/l | T. Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 07/10/73 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 08/14/73 | --- | --- | --- | --- | 23.6 | 12. | 72. | <1. | <1. |
| 09/11/73 | --- | --- | 6.8 | 41.5 | 20.1 | 11.5 | 70. | 1.5 | <1. |
| 10/18/73 | --- | --- | 7.1 | 41.5 | 23. | 21. | 70. | <1. | <1. |
| 12/05/73 | --- | --- | --- | --- | --- | 11. | 63. | <1. | <1. |
| 05/10/74 | --- | --- | --- | --- | --- | 11. | 2. | <1. | 84. |
| 06/05/74 | --- | --- | 6.7 | 37.2 | 19.8 | 10. | <1. | <1. | 68. |
| 07/10/74 | --- | --- | --- | --- | --- | 16. | <1. | 4. | 63. |
| 08/07/74 | --- | --- | 7.4 | 39.1 | 31.7 | 7. | <1. | <1. | 71. |
| 09/11/74 | --- | --- | --- | 36.0 | --- | --- | --- | --- | --- |
| 09/15/74 | --- | --- | --- | --- | --- | 10. | 4. | 3. | 77. |
| 10/09/74 | --- | --- | --- | 43.8 | --- | 14. | <1. | <1. | 74. |
| 12/04/74 | --- | --- | 7.2 | 38.1 | --- | --- | --- | --- | --- |
| 03/03/75 | --- | --- | 7.1 | --- | 22.8 | 11. | 10. | 6. | 82. |
| 06/05/75 | --- | --- | --- | --- | --- | 10. | 3. | 2. | 65. |
| 07/09/75 | --- | --- | --- | 38.4 | 20.3 | 19. | <1. | <1. | 67. |
| 08/13/75 | --- | --- | --- | 42.3 | 21.8 | 12. | <1. | <1. | 65. |
| 09/18/75 | --- | --- | --- | 40.9 | 21.0 | 11. | 2. | 1.5 | 84. |
| 10/22/75 | --- | --- | --- | 41.9 | 21.8 | 10. | 1. | <1. | 48. |
| 05/20/76 | --- | --- | --- | --- | 20.1 | 10. | 1. | <1. | 61. |
| 06/30/76 | --- | --- | --- | 35.7 | 18.2 | 10. | <1. | 3. | 42. |
| 07/21/76 | --- | --- | --- | 34.8 | 21.7 | 11. | <1. | <1. | 60. |
| 08/18/76 | --- | --- | --- | 52.7 | 22.5 | 11. | <1. | --- | 68.5 |
| 09/15/76 | --- | --- | --- | 42.3 | 22.6 | 11. | --- | --- | 122. |
| 10/14/76 | --- | --- | --- | --- | 20.6 | 13. | --- | --- | 76. |
| 04/28/77 | --- | --- | --- | 44.3 | 26.0 | --- | --- | --- | --- |
| 06/02/77 | --- | --- | --- | 43.0 | 17.2 | --- | --- | --- | --- |
| 06/30/77 | --- | --- | --- | 44.7 | 23.3 | --- | --- | --- | --- |

DIAMOND LAKE
SHORT CREEK

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 07/20/77 | --- | --- | --- | 43.5 | 22.0 | --- | --- | --- | --- |
| 08/18/77 | --- | --- | --- | 45.1 | 22.4 | --- | --- | --- | --- |
| 09/27/77 | --- | --- | --- | 43.2 | 22.4 | --- | --- | --- | --- |
| 10/27/77 | --- | --- | --- | 44.7 | 21.5 | --- | --- | --- | --- |

DIAMOND LAKE
CAMP CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2+NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 07/17/73 | .015 | .015 | --- | .003 | .09 | .008 | --- | --- | --- |
| 06/05/74 | .105 | .045 | --- | --- | <.1 | --- | 2. | <1. | 3.4 |
| 08/07/74 | .015 | --- | --- | --- | <.1 | --- | 1.8 | <1. | --- |
| 09/11/74 | <.005 | --- | --- | --- | <.1 | --- | --- | --- | --- |
| 06/05/75 | <.01 | <.01 | <.005 | <.005 | <.05 | .01 | .8 | <1. | 1.84 |
| 07/09/75 | <.01 | <.01 | .005 | <.005 | .15 | .005 | .6 | <1. | 10.8 |
| 05/20/76 | <.01 | --- | .005 | <.005 | .05 | .01 | .5 | <1. | --- |
| 06/30/76 | .01 | <.01 | .006 | <.005 | .3 | <.005 | .7 | <1. | 22.8 |
| 07/21/76 | .015 | <.01 | --- | <.005 | .07 | .01 | <.2 | <1. | 36. |
| 08/18/76 | .01 | <.01 | --- | --- | <.05 | --- | .5 | <1. | 25.2 |

DIAMOND LAKE
CAMP CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.3 | .2 | 1.5 | .8 |
| 08/07/74 | --- | --- | --- | --- | --- | --- | --- | --- | 1.5 | .2 | 1.7 | 1. |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1. | <.2 | 1.7 | .7 |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.4 | .3 | 1.9 | .8 |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.6 | .3 | 1.6 | .7 |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .3 | 1.3 | .8 |
| 07/21/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.7 | <1. | 1.8 | <.1 |
| 08/18/76 | --- | --- | --- | --- | --- | --- | --- | --- | 1.8 | .4 | 1.8 | <.1 |

DIAMOND LAKE
CAMP CREEK

| | Temp °C | DO mg/l | pH | Sp. Cond. µmhos/cm | Alk mg/l | T. Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/74 | --- | --- | 6.8 | 17.4 | 8.6 | 4. | 3. | 2. | 30. |
| 08/07/74 | --- | --- | --- | --- | --- | 10. | <1. | <1. | 37. |
| 09/11/74 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 06/05/75 | --- | --- | --- | --- | --- | 6. | 5. | 3. | 34. |
| 07/09/75 | --- | --- | --- | 21.8 | 10.8 | 8. | <1. | <1. | 42. |
| 05/20/76 | --- | --- | --- | --- | 9.6 | 5. | <1. | <1. | 32. |
| 06/30/76 | --- | --- | --- | 19.6 | 9.6 | 6. | 2. | <1. | 6. |
| 07/21/76 | --- | --- | --- | 21.5 | 11.4 | 8. | <1. | <1. | 33. |
| 08/18/76 | --- | --- | --- | 28.5 | 11.8 | 9. | <1. | --- | 48. |

DIAMOND LAKE
DRY CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/75 | .02 | <.01 | <.005 | .015 | .15 | .005 | 2. | <1. | 1.44 |
| 07/09/75 | .01 | <.01 | .01 | <.005 | .2 | .005 | 1. | <1. | 12.6 |
| 05/20/76 | <.01 | .015 | .015 | <.005 | .05 | .005 | .6 | <1. | --- |
| 06/30/76 | .01 | .014 | .014 | <.005 | .15 | <.005 | .9 | <1. | 29.5 |
| 07/21/76 | .02 | .013 | .013 | <.005 | .1 | <.005 | .5 | <1. | 37.6 |

DIAMOND LAKE
DRY CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.5 | .3 | 1.4 | .5 |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 1.9 | .5 | 2.4 | 1. |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.3 | .5 | 2. | .8 |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 3. | .5 | 1.6 | 1. |
| 07/21/76 | --- | --- | --- | --- | --- | --- | --- | --- | 2.7 | <1. | 2.3 | .01 |

DIAMOND LAKE
DRY CREEK

| | Temp °C | DO mg/l | pH | Sp. Cond. µmhos/cm | Alk mg/l | T. Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/75 | --- | --- | --- | --- | --- | 6. | 8. | 4. | 36. |
| 07/09/75 | --- | --- | --- | --- | --- | 12. | <1. | <1. | 44. |
| 05/20/76 | --- | --- | --- | --- | 11.9 | 8. | <1. | <1. | 37. |
| 06/30/76 | --- | --- | --- | 27.5 | 11.5 | 9. | 7. | 6. | 22. |
| 07/21/76 | --- | --- | --- | 31.3 | 15.7 | 11. | 4. | <1. | 42. |

DIAMOND LAKE
RABBIT CREEK

| | TP mg/l | TDP mg/l | DOP mg/l | $NH_3$ mg/l | Kjl N mg/l | $NO_2$+$NO_3$ mg/l | TOC mg/l | TIC mg/l | React Si mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 07/17/73 | .03 | .027 | --- | .004 | .09 | .004 | --- | --- | --- |
| 06/05/75 | .02 | .015 | .015 | .005 | .1 | .015 | 1.6 | <1. | 2.51 |
| 07/09/75 | .03 | .015 | .015 | <.005 | .75 | .005 | 3.5 | --- | 14.4 |
| 08/13/75 | .03 | .02 | .02 | <.005 | .1 | .005 | 8.2 | <1. | 15.4 |
| 09/18/75 | .02 | .03 | .015 | <.005 | .1 | .005 | .9 | <1. | 15.4 |
| 10/22/75 | .03 | .015 | .015 | <.005 | .1 | .005 | 1.5 | <1. | 13.8 |
| 05/20/76 | .02 | .02 | .02 | <.005 | .1 | .005 | 1.3 | <1. | --- |
| 06/30/76 | .03 | .016 | .016 | <.005 | .2 | <.005 | 2. | <1. | 35.3 |
| 07/21/76 | .015 | .014 | .014 | .005 | .05 | <.005 | 1.2 | <1. | 46.7 |
| 08/18/76 | .025 | <.01 | --- | <.005 | <.05 | <.005 | 1.4 | <1. | 33.4 |
| 09/15/76 | .02 | --- | .016 | <.005 | <.05 | <.005 | --- | <1. | 34.9 |
| 10/14/76 | .02 | --- | --- | --- | .1 | --- | 1.1 | <1. | 34.5 |

DIAMOND LAKE
RABBIT CREEK

| | TFe µg/l | DFe µg/l | TMn µg/l | DMn µg/l | TCu µg/l | DCu µg/l | TZn µg/l | DZn µg/l | Ca mg/l | Mg mg/l | Na mg/l | K mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | .5 | 2.6 | 1. |
| 07/09/75 | --- | --- | --- | --- | --- | --- | --- | --- | 2.6 | .6 | 2.8 | 1.1 |
| 08/13/75 | --- | --- | --- | --- | --- | --- | --- | --- | 3. | .5 | 2.6 | .9 |
| 09/18/75 | --- | --- | --- | --- | --- | --- | --- | --- | 3.3 | .6 | 2.8 | 1.2 |
| 10/22/75 | --- | --- | --- | --- | --- | --- | --- | --- | 3.7 | .6 | 2.8 | 1.3 |
| 05/20/76 | --- | --- | --- | --- | --- | --- | --- | --- | 3.7 | .7 | 2.4 | .9 |
| 06/30/76 | --- | --- | --- | --- | --- | --- | --- | --- | 4. | .6 | 1.7 | 1.1 |
| 07/21/76 | --- | <5. | --- | <2. | --- | <5. | --- | <5. | --- | --- | 2.6 | .01 |
| 08/18/76 | --- | --- | --- | --- | --- | --- | --- | --- | 3.5 | .6 | 2.6 | <.1 |
| 09/15/76 | --- | --- | --- | --- | --- | --- | --- | --- | 3.8 | .7 | 2.7 | <.1 |
| 10/14/76 | --- | --- | --- | --- | --- | --- | --- | --- | 3.8 | .7 | 2.8 | <.1 |

DIAMOND LAKE
RABBIT CREEK

| | Temp °C | DO mg/l | pH | Sp.Cond. µmhos/cm | Alk mg/l | T.Hard mg/l | SS mg/l | TVSS mg/l | TS mg/l |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/75 | --- | --- | --- | --- | --- | 11. | 6. | 4. | 52. |
| 07/09/75 | --- | --- | --- | 35.1 | 18.4 | 18. | 1. | 1. | 55. |
| 08/13/75 | --- | --- | --- | 37.1 | 17.5 | 12. | 1. | <1. | 44. |
| 09/18/75 | --- | --- | --- | 38.7 | 18.8 | 12. | 2. | 1. | 57. |
| 10/22/75 | --- | --- | --- | 38.7 | 20.1 | 13. | 4. | 2. | 53. |
| 05/20/76 | --- | --- | --- | --- | 17.1 | 12. | <1. | <1. | 48. |
| 06/30/76 | --- | --- | --- | 32.7 | 16.8 | 11. | 4. | 4. | 28. |
| 07/21/76 | --- | --- | --- | 33.6 | 18.2 | 11. | 2. | <1. | 33. |
| 08/18/76 | --- | --- | --- | 46.4 | 19.5 | 14. | <1. | --- | 68.5 |
| 09/15/76 | --- | --- | --- | 39.0 | 21.1 | 13. | --- | --- | 63. |
| 10/14/76 | --- | --- | --- | --- | 21.9 | 14. | --- | --- | 71. |

## ABBREVIATIONS

| | |
|---|---|
| TP | Total Phosphorus |
| TDP | Total Dissolved Phosphorus |
| DOP | Dissolved Ortho Phosphorus |
| $NH_3$ | Ammonia |
| Kjl N | Kjeldahl Nitrogen |
| $NO_2$ + $NO_3$ | Nitrite + Nitrate |
| TOC | Total Organic Carbon |
| TIC | Total Inorganic Carbon |
| React Si | Reactive Silica |
| T Fe | Total Iron |
| D Fe | Dissolved Iron |
| T Mn | Total Manganese |
| D Mn | Dissolved Manganese |
| T Cu | Total Copper |
| D Cu | Dissolved Copper |
| T Zn | Total Zinc |
| D Zn | Dissolved Zinc |
| Ca | Calcium |
| Mg | Magnesium |
| Na | Sodium |
| K | Potassium |
| Temp. (°C) | Temperature |
| D.O. | Dissolved Oxygen |
| Sp. Cond. | Specific Conductance @ 25°C |
| Alk | Alkalinity |
| T. Hard. | Total Hardness |
| SS | Suspended Solids |
| TVSS | Total Volatile Suspended Solids |
| TS | Total Solids |
| Chl a | Chlorophyll a |
| Prim. Prod. | Primary Productivity |
| $E_h$ | Redox Potential |

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